UUU	UUU	AAAA	AAAAA	FFFFFFFFFFFFF	
UUU	UUU		AAAAA	FFFFFFFFFFFF	
ŬŬŬ	ŬŬŬ		AAAAA	FFFFFFFFFFFFF	
ŬŬŬ	ŬŬŬ	AAA	AAA	FFF	
UUU	ÜÜÜ	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFF	
				III.	
UUU	UUU	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFFFFFFFFF	
UUU	UUU	AAA	AAA	FFFFFFFFFF	
ŬŬŬ	ŬŬŬ	AAA	AAA	FFFFFFFFFFF	
UUU	ŬŬŬ		AAAAAAA	FFF	
UUU	UUU		AAAAAAA	FFF	
			AAAAAAA	FFF	
UUU	UUU				
UUU	UUU	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFF	
UUU	UUU	AAA	AAA	FFF	
UUUUUUUU	JUUUUUUU	AAA	AAA	FFF	
UUUUUUU		AAA	AAA	FFF	
UUUUUUUU		AAA	AAA	FFF	
222220	000000	rarara	FILTER	111	

\_\$2

NN NN NN NN NN NN NNNN NNNN NN NN

AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	MM	AAAAAAAAA AA AA AA AA	NN NN NN NN NN NN NN NN NN NN
	\$			

Page

UAFMAIN VO4-000		I 10 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (1)
58 59 60 61 62 63 64 65 66 67 68 69 70	0058 1   0059 1   0060 1   0061 1	V03-024 JRL0036 John R. Lawson, Jr. 07-Aug-1984 17:08 Hide UPGRADE, DOWNGRADE, TMPJNL, PRMJNL privileges. This is a temporary work-around; it is marked in the right-hand margin with !** in routine PRINT_PRIV.
63	0062 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V03-023 JRL0027 John R. Lawson, Jr. 25-Jul-1984 11:01 Add MODIFY/SYSTEM_PASSWORD=xxxxx to modify the system password.
67 68	0066 1 1 0067 1 0068 1	V03-022 JRL0029 John R. Lawson, Jr. 25-Jul-1984 10:47 Find better names for UAF\$_NEWMSG10 and UAF\$_NEWMSG15
70 71	0070 1 0071 1	V03-021 JRL0020 John R. Lawson, Jr. 09-Jul-1984 15:51 Bark when a proxy name is changed with the RENAME command.
72 73 74 75 76 77 78 80 81 82 83 84 85 88 89	0072 0073 0074 1 0075 1	V03-020 JRL0017 John R. Lawson, Jr. 02-Jul-1984 22:13  Modify GET_UAF_RECORD so that it does not get the system password record.
77 78 79	0076 0077 1 0078 1 0079 1	V03-029 JRL0013 John R. Lawson, Jr. 02-Jul-1984 12:28 Display privileges of users in groups less than .EXE\$GL_SYSUIC as "ALL".
80 81 82 83	0080 1 0081 1 0082 1 0083 1	V03-028 JRL0010 John R. Lawson, Jr. 25-Jun-1984 15:56 Changed 'X'/'-' to '#'/'-' in primary/secondary access display.
85 86 87	0084 1 0085 1 0086 1 0087 1	V03-027 JRL0008 John R. Lawson, Jr. 21-Jun-1984 14:00 Add support for the /PWDEXPIRED qualifier (pre-expired password).
88 89 90	0088 1 ! 0089 1 ! 0090 1 !	V03-026 JRL0006 John R. Lawson, Jr. 20-Jun-1984 12:28 Obliterate operator's console messages
	0091 0092 0093 1 0094 1	V03-025 JRL0002 John R. Lawson, Jr. 15-Jun-1984 09:55 Change all internal messages to calls to LIB\$SIGNAL and the message utility place all messages in UAFMSG.MSG
96 97 98	0095 1 0096 1 0097 1 0098 1	V03-024 LY0494 Larry Yetto 11-JUN-1984 12:59  fix noise error message comming from ADD/ID/USER=* caused by a flag not properly being set
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109	0100 1 0101 1 0102 1 0103 1	V03-023 MHB0150 Mark Bramhall 2-May-1984 Remove unused reference to TPARSE definitions. Add DISPECONNECT flag. Add security auditing for SYSUAF/NETUAF changes.
104 105 106 107	0104 1 0105 1 0106 1	V03-022 LY0474 Larry Yetto 9-APR-1984 08:32 Zero the login failure and last login fields on a copy operation.
108 109 110	0108 1 0109 1 0110 1	V03-021 LY0466 Larry Yetto 22-MAR-1984 13:52 Add support for the rights data base functions
111 112 113 114	0112 1 0113 1 0114 1	VO3-020 ACG0397 Andrew C. Goldstein, 24-Feb-1984 23:21 Clean up display formatting

UV

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UAFMAIN VO4-000		J 10 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
: 115	0115 1 1	V03-019 ACG0397 Andrew C. Goldstein, 6-Feb-1984 16:27 Add DISREPORT to flags, clean up record locking
115 117 118 1190 1223 1225 1228 1231 1233 1334 1337 1339 144 1443 144	0118 1 0119 1 0120 1	V03-018 ACG0388 Andrew C. Goldstein, 12-Jan-1984 19:21 Add command input to handle new UAF features; general code cleanup
122 123 124	0122 1 0123 1 0124 1	V03-017 ACG0385 Andrew C. Goldstein, 6-Jan-1984 18:28 V4 UAF format change; remove read-only under installed SYSPRV feature; misc. code cleanups
126 127 128	0126 1 0127 1 0128 1	V03-016 TMK0001 Todd M. Katz 10-Oct-1983 Add JTQUOTA (job-wide logical name table creation quota) qualifier.
130 131	0130 1 0131 1	V03-015 LMP0153 L. Mark Pilant, 13-Sep-1983 11:57 Add minimal support for alphanumeric UICs.
133 134	0133 1 0134 1	014 JWT0105 Jim Teague 30-Mar-1983 Small changes to CLITABLES implementation.
136 137	0136 1 0137 1	013 JWT0104 Jim Teague 29-Mar-1983 Add CLITABLES qualifier.
139 140	0139 1 0140 1	012 WMC0001 Wayne Cardoza 15-Mar-1983 Add MAXDETACH qualifier.
142	0141 0142 1	011 JWT0097 Jim Teague 23-Feb-1983 Fix RENAME problem with proxy entries.
145 146	0144 1 1 0145 1 0146 1	010 JWT0096 Jim Teague 08-Feb-1983 Log NETUAF changes to console, too.
147 148 149	0147 1 0148 1 0149 1	009 JWT0087 Jim Teague 11-Jan-1983 Change SYSWSQUOTA for created UAFs to 350
150 151 152	0150 1 1 0151 1 1 0152 1	008 JWT0082 Jim Teague 05-Jan-1983 Fix problem with LIST/PROXY.
149 150 151 152 153 155 156 157 158 159 161 163 164 165 166 167 168 170	0153 1 0154 1 0155 1 0156 1	007 JWT0079 Jim Teague 15-Dec-1982 Enlarge output field for BYTLM; reset pending mail count for COPY operations.
158 159 160	0158 1 0159 1 0160 1	006 JWT0072 Jim Teague 03-Dec-1982 Add global longword which can be patched to enable/disable console logging of SYSUAF mods.
162 163	0162 1 0163 1	005 JWT0069 Jim Teague 24-Nov-1982 Allow redefinition of sys\$output.
165 166 167	0164 1 0165 1 0166 1 0167 1	004 JWT0057 Jim Teague 21-Sep-1982 Add a message to tell whether or not NETUAF was modified.
169 170	0168 1 0169 1 0170 1	003 JWT0042 Jim Teague 15-Jul-1982 Make SYSUAF.LIS and NETUAF.LIS world noread.

U

UAFMAIN VO4-000			K 10 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (1
172 173 174 175 176 177 178 179 180	0172 1 ! 0173 1 ! 0174 1 ! 0175 1 ! 0176 1 ! 0177 1 ! 0178 1 ! 0179 1 !	002	JWT0036 Jim Teague 08-Jun-1982 Add full wildcarding to show/proxy  JWT0022 Jim Teague 17-Mar-1982  Fix bug that caused failure to reparse command line for wildcard modifications. List default device on its own line for show/full.

U

UV

```
M 10
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32:1
                                                           uaf$mod_sys_pwd : novalue,
security_audit : novalue;
     ! modify the system password
! Perform a security audit
linkage
                                                           EXTERNAL REFERENCES:
                                           external literal clis_bufovf, clis_noclint;
                                            external routine
                                                          l routine
lbr$output_help,
lib$get_foreign,
lib$get_input,
lib$put_output,
fmg$match_name : fmg_match,
cli$dcl_parse,
cli$ddispatch,
                                                         cli$dispatch,
cli$present,
cli$get_value,
update_record,
parse_wild,
lgi$hpwd,
uaf$add_ident_recbuf,
uaf$build_holder,
uaf$find_uic,
uaf$remove_ident_recbuf,
uaf$write_rights;
                                                                                                                        modify all specified fields parses a wildcarded user specification
                                                                                                                        hash password routine
                                           external
                                                          EXE$GL_SYSUIC :
rdb_header_flag :
rdb_list_flag :
attributes :
                                                                                           long
                                                                                           byte .
                                                                                           byte .
                                                                                       : long ,
: $bblock[8] ,
: $bblock [4] ,
                                                           holder
                                                           ident
                                                                                                                        AUTHORIZE command parse tables address of privilege name table
                                                           authorize_commands,
                                                          prv$ab_names;
                                               MACROS:
                                            macro
                                                    namelen(x, y) =
                         REEREE
                                                           begin
builtin
                                                                  locc:
                                                           register
                                                                  r0 = 0:
```

UV

```
N 10
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                    VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
    locc (%ref(' '), %ref(x), y; r0);
                                          x - .r0
end%,
                                     cstring[] = (uplit byte (%charcount (%string (%remaining)),
                                                     %string (%remaining)))%,
                                     fatal[] = (fmt_sys_msg (%remaining); acc$exit ())%,
                                  Macros to check for success or failure from RMS
                                     rmsbad (string) = (not (rmserr = string)) %,
rmsok (string) = (rmserr = string) %,
                                  Macros to set up and write an FAO string.
                                     faomac (faomsg)[] =
                                          begin
                                          faodsc[dsc$w_length] = . (faomsg)<0.8>;
faodsc[dsc$a_pointer] = (faomsg) + 1;
                                          $fao (faodsc, rabptr[rab$w_rsz], disdsc $comma (%remaining)
                                                                %remaining):
                                          $put (rab = .rabptr);
end %,
                                     $comma[] =, %.
                                     output_null = begin _
                                          rabptr[rab$w_rsz] = 0;
                                          $put (rab = .rabptr);
                                          end %.
                                  Macro to create string descriptor for command parameters and qualifiers
                                     sd[a] =
                                          bind %name ('SD_',a) = $descriptor (a)%;
                  999
                                                                                     'brief', 'ful
'remove_identifier',
                                           'token1',
                                                                                                          'full'.
                                                                'token2',
                                          'add_identifier'.
'modify_identifier'
                             1 ):
                               field
                                     descr_fields =
                                                                                    ! Define the fields for a DESCRIPTOR
                                          length = [dsc$w_length],
dtype = [dsc$b_dtype],
class = [dsc$b_class],
pointer = [dsc$a_pointer]
                                          tes:
                                macro
                                     statdesc =
```

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VO
```

```
B 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                 $bblock [dsc$k_s_bln] field (descr_fields)
    preset ([length] = 0,
    355555556666666667877777777778901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
                        [length] = 0.
                                                                               [dtype] = dsc$k_dtype_t,
[class] = dsc$k_class_s,
[pointer] = 0)%;
                                    macro
                                          [dtype] = dsc$k_dtype_t,
[class] = dsc$k_class_s,
[pointer] = (uplit byte (%string(string))))%;
                                           sd_attribresource
                                                                         : qualstr_desc ('attributes.resource');
                                        EQUATED SYMBOLS:
                                     literal
                                                                                                      maximum command length logical false
                                                 cmdbufmax
                                                                          = 508,
                                                 false
                                                                          =
                                                 true
                                                                          =
                                                                                                      logical true
                                                update_records
remove_records
copy_flag
rename_flag
byte_length
word_length
long_length
retry_rlk
sleep_rlk
                                                                          =
                                                                                                      flag for proxy file adjustment
                                                                          =
                                                                          =
                                                                                                      used in routine copy_uaf
                                                                          =
                                                                                                      used in routine rename_uaf
                                                                         = 8,
= 16,
= 32,
= 8,00,
= 13,
                                                                                                      bits per byte
                                                                                                      bits per word
                                                                                                      bits per longword
                                                                                                      number of retries for a locked record
                                                 sleep_rlk
                                                                                                     ms to sleep before retrying
                                                                          = 0.
                                                                          =
                                                 zero
                                                 cmdbuflen
                                                                                                   ! size of user command buffer
                                    global literal
                                                                          = uaf$c_purdy_v, ! encryption algorithm to use
= 132; ! size of display file output buffer
                                                 encrypt
disbuflen
                                    bind
                                                 sysuaf_string
netuaf_string
mod_act_dsc
add_act_dsc
rem_act_dsc
fao_lin_dsc
dbl_color
                                                                         = uplit byte ('SYSUAF'),
= uplit byte ('NETUAF'),
= $descriptor ('modified'),
= $descriptor ('added'),
                                                                          = $descriptor ('removed'),
= $descriptor ('PID=!XL !AS !AS record !AS on !XD'),
                                                                          = $descriptor ('::').
                                                 dbl_colon
                                        Define the system delta time to sleep before retrying to GET a locked record.
                                                 wakedelta
                                                                          = uplit long (-10*1000*sleep_rlk,-1),
                                        Default values for authorization file record. These values are
                                        only used when a new authorization file is created. If the file
                                        already exists, the default values are read from the first file
```

```
UAFMAIN
                                                                                                                   16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 PEDISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
V04-000
                            record.
     = cstring ('DEFAULT'),
= cstring ('USER'),
= cstring ('DCLTABLES'),
= cstring (''),
= cstring ('DCL'),
= cstring (''),
= cstring (''),
                                                                                                                                   default username
default password
! default CLI tables
                                                         defuser
                                                         defpass
                                                         defclitabl
                                                                                                                                    default account name default command interpreter owner's name default login command file
                                                         defact
                                                         defcli
                                                         defowner
                                                                                     = cstring (
= %0'200'
= %0'200'
                                                         deflgicmd
                                                                                                                                   default login command file default group default member default directory name default device name default buffered I/O limit default buffered I/O buffer space default direct I/O limit default open file limit default flag bits default subprocess count
                                                         defgrp
                                                         defmem
                                                                                     = cstring ('[USER]'),
= cstring (''),
                                                         defdir
                                                         defdev
                                                         defbiolm
                                                                                     = 4096.
                                                         defbytlm
                                                         defdiolm
                                                                                         26.
                                                                                      =
                                                         deffillm
                                                                                      =
                                                                                     = 0,
                                                         defflags
                                                         deftqcnt
                                                                                         2.
                                                                                                                                    default subprocess count
                                                         defprccnt
                                                                                      =
                                                                                                                                    default process priority
                                                         defpri
                                                                                      =
                                                                                                                                   default process priority
default queue priority
default working set limit
"default" working set default size
default working set extent
default CPU time quota
default AST queue limit
default paging file limit in pages
default enqueue limit
default paged buffer I/O limit
default shared file limit
default maximum concurrent jobs
                                                                                     = 4
= 200.
= 150.
                                                         defauepri
                                                         defwsquota
                                                         defdfwscnt
                                                                                         500,
                                                         defwsextent
                                                                                     = 0
                                                         defcputim
                                                         defastlm
                                                                                      = 10000.
                                                         defpaflauota
                                                         defenglm
                                                                                      = 10,
                                                         defpbytlm
defshrfillm
                                                                                                                                    default maximum concurrent jobs
                                                         defmaxjobs
                                                                                                                                    default maximum concurrent group jobs
                                                         defmaxacctjobs
                                                                                                 default maximum detached processes default job-wide logical table quota Sat, Sun are default non-prime days shitposition (uaf$v_saturday)) or
                                                         defmaxdetach
                                                                                     =
                                                         defitquota
                                                         defprimedays
                                                                                          (1 * $bitposition (uaf$v_sunday))
                                                                                      = 0.
                                                         defhours
                                                                                                                                 ! default all hours to allow access
                                                                                                                                ! default privilege vector
                                                                       defpriv = uplit (
                                                                                          (1 * $bitposition (prv$v_netmbx)) or
                                                                                          (1 * $bitposition (prv$v_tmpmbx))
                                                         defpwdlength
                                                                                     = 6.
                                                                                                                                 ! default min password length
                            0550
0551
                                                                                      = uplit (0.0).
                                                                                                                                 ! default password lifetime
                                                         defpwdlife
                            0552
0553
0554
0555
0556
0557
                                               The following are the default values for the SYSTEM user.
                                              a new file is created, a system manager record is created.
                                                                                     = cstring ('SYSTEM') = cstring ('MANAGER')
                                                         sysuser
                                                         SYSDASS
                                                                                     = cstring ('DCLTABLES'),
= cstring ('SYSTEM'),
= cstring ('DCL'),
                                                         sysclitabl
                                                         sysact
```

syscli

```
D 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                      = cstring ('SYSTEM MANAGER'),
= cstring (''),
= %0'1',
= %0'4',
    Sysowner
                                               syslgicmd
                                               sysgrp
                                               sysmem
                                                                         cstring ('[SYSMGR]'),
cstring ('),
12
20480,
12,
20,
0,
                                               sysdir
                                                                       =
                                               sysdev
                                                                       =
                                               sysbiolm
                                                                       =
                                               sysbytim
                                                                       =
                                               sysdiolm
systillm
                                                                       =
                                                                       =
                                                                       =
                                               sysflags
                                                                       =
                                               systacht
                                                                       =
                                               sysprcent
                                                                       =
                                               syspri
                                                                         350
1024.
150.
                                                                       =
                                               sysquepri
                                                                       =
                                               syswsquota
                                                                       =
                                               syswsextent
                                                                       =
                                               sysdfwscnt
                                                                         20,
                                                                       =
                                               syscoutim
                                               sysastlm
                                                                       =
                                                                       =
                                               syspgflquota
                                                                          20,
                                               sysenglm
                                                                       =
                                               syspbytlm
sysshrfillm
                                                                       =
                                                                      = 0.
= 0.
= 0.
= 1024.
                                               sysmaxjobs
                                               sysmaxdetach
                                               sysjtquota
                                                                         Ò.
                                               sysmaxacctjobs
                                                                       =
                                                                       =
                                                                          ! Sat, Sun are default non-prime days
(1 ^ $bitposition (uaf$v_saturday)) or
                                               sysprimedays
                                                                              * $bitposition (uaf$v_sunday))
                                                                       = 0.
                                               syshours
                                                                       = uplit (rep 2 of (%x'ffffffffff)),
                                               syspriv
                                                                       = 8.
                                                                                                             default min password length
                                               syspudlength
                                               syspwdlife
                                                                       = uplit (0,0);
                                                                                                             default password lifetime
                                      GLOBAL STORAGE - must be before OWN for initialization purposes
                        0600
0601
0602
0603
0604
0605
0606
0607
0608
0610
0611
0612
0613
0614
0615
0616
                                   global
                                                                       : vector [disbuflen, byte], ! display buffer
: block [8, byte] initial (disbuflen, disbuf);
                                               disbuf
                                               disdsc
                                      OWN STORAGE:
                                   OMD
                                                                       : block [uaf$s username, byte],
: bitvector [32],
                                               username_buf
                                               pcb_sts
pid,
                                               username dsc
recname dsc
file dsc
mod default,
modify flag
netual modified,
                                                                       : vector [2] initial (0, username_buf),
: vector [2]
: vector [2] initial (6),
                                                                                                 DEFAULT record being modified by MODIFY command SYSUAF modified NETUAF modified
                                                                       : long,
```

V

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V
```

```
E 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                               VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
UPEMAIN
VU4 000
                                              rename_ph2
olduserlen
    : byte initial (false),
                                                                     : long,
                                              oldusername
                                                                      : vector [uaf$s_username,byte],
                                              newuserlen
                                                                     : long,
                                                                     : vector [uaf$s username.byte],
: vector [cmdbuflen, byte], ! command buffer
                                              newusername
                                              cmdbuf
                                              default_record
                                                                     : word,
                                                                     : block [uaf$c_length, byte], ! default record held here : block [8, byte], ! password descriptor
                      pwddsc
                                             insize
brief_flag
full_flag
header_flag
                                                                     : long.
                                                                                                           number of input chars
                                                                                                          display option
display option
output header or not?
                                                                     : long,
                                                                     : long,
                                                                     : long.
                                                        : $fab (
                                              infab
                                                                     fec = (get, put),
rat = cr,
fnm = 'SYS$INPUT'
                                                                                            ! FAB for terminal I/O
                   2222
                                              inrab
                                                         : $rab (
                                                                                            ! RAB for terminal I/O
                                                                     rac = seq.
                                                                     rop = omt,
fab = infab
                    222
                                              outfab : $fab (
                                                                     fac = (put),
                                                                     rat = cr,
fnm = "SYS$OUTPUT"
                                              lstnam : $nam (),
                                                                                         ! needed for the DLT option
                                              lstpro : $xabpro (
                                                                     pro = (rwd,rwd,rw)
                                              Lstfab : $fab (
                                                                                            ! FAB for UAF listing file
                                                                     fac = put,
                                                                     rat = cr.
fnm = 'SYSUAF.LIS',
shr = nil,
                                                                     org = seq,

rfm = var,

mrs = disbuflen,

nam = lstnam,

xab = lstpro
                       0669
0670
0671
0672
0673
                                              lstrab : $rab (
                                                                                            ! RAB for UAF listing file
                                                                     rac = seq,
rbf = disbuf,
fab = lstfab
```

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V
```

```
f 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                       06778

06778

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06778

06883

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          nistnam : Snam (),
                                                                                                                                  nistpro : $xabpro (
                                                                                                                                                                                                   pro = (rwd,rwd,rw)
                                                                                                                                  nistfab : $fab (
                                                                                                                                                                                                                                                                    ! FAB for NETUAF Listing file
                                                                                                                                                                                                    fac = put,
                                                                                                                                                                                                   rat = cr,
fnm = 'NETUAF.LIS',
                                                                                                                                                                                                    shr = nil,
                                                                                                                                                                                                   org = seq,
rfm = ver,
mrs = disbuflen,
                                                                                                                                                                                                   nam = nlstnam,
                                                                                                                                                                                                    xab = nlstpro
                                                                                                                                  nlstrab : $rab (
                                                                                                                                                                                                                                                                     ! RAB for NETUAF listing file
                                                                                                                                                                                                   rac = seq,
rbf = disbuf,
                                                                                                                                                                                                     fab = nlstfab
                                                                                                                                  uafkey2 : $xabkey (
                                                                                                                                                                                                                                                                      ! XAB for User number key
                                                                                                                                                                                                   kref = 2, alternate key
pos0 = $byteoffset (uaf$w_mem),
siz0 = 2,
dtp = bn2,
flg = (chg,dup)
                                                                                                                                                                                                                                                                     ! XAB for Group number key
                                                                                                                                  uafkey1 : $xabkey (
                                                                                                                                                                                                   kref = 1. ! alternate key
pos0 = $byteoffset (uaf$l_uic),
siz0 = 4,
                                                                                                                                                                                                                                                                     alternate key
                                                                                                                                                                                                   dtp = bn4,
flg = (chg,dup),
nxt = uafkey2
                                                                                                                                                                                                                                                                    ! XAB for USERNAME key primary key
                                                                                                                                  uafkey0 : $xabkey (
                                                                                                                                                                                                   kref = 0, ! primary key
pos0 = $byteoffset (uaf$t_username),
siz0 = uaf$s_username,
                                                                                                                                                                                                   nxt = uafkeyT
                                                                                                                                                                                                                                                             ! XAB for file protection
                                                                                                                                  uaforo : $xaboro (
                                                                                                                                                                                                   pro = (rwed, rwed), ! deny world access
nxt = uafkey0
                                                                                                                                  uaffab : $fab (
                                                                                                                                                                                                                                                                     ! FAB for work file
                                                                                                                                                                                                    fop = cif,
fac = (get, put, del, upd),
fnm = 'SYSUAF',
```

```
6 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                     VAX-11 BLiss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                                                                                                                                                          (2)
                                                                                dnm = '.DAT',
shr = (get, put, del, upd),
org = idx,
rfm = var,
mrs = uaf$c_length,
alq = 10,
deq = 10,
xab = uafpro
     FAB for NETUAF Proxy Login File
                        222
                                                      nafkey1 : $xabkey (
                                                                                  kref = 1
                                                                                 pos0 = $byteoffset (naf$t_localuser),
                                                                                 siz0 = naf$s_localuser,
flg = (chg,dup)
                        PP
                                                      nafkey0 : $xabkey (
                       2222
                                                                                  kref = 0
                                                                                 posQ = $byteoffset (naf$t_remname),
                                                                                 siz0 = naf$s_remname.
                                                                                 nxt = nafkeyT
                        200
                                                      nafpro : $xabpro (
                                                                                 pro = (rwed, rwed),
                                                                                 nxt = nafkey0
                                                      naffab : $fab (
                        PPPPPPPPPP
                                                                                                             ! FAB for NETUAF
                                                                                  fop = cif,
                                                                                 fac = (get, put, del, upd),
fnm = 'NETUAF',
dnm = '.DAT',
                                                                                 shr = (get, put, del, upd),
org = idx,
rfm = fix,
mrs = naf$c_length,
alq = 10,
                                                                                 deg = 10
                                                                                 xab = nafpro
                                            GLOBAL STORAGE:
                                         global
                                                                                    block [8, byte], ! gen'l purpose fao string desc
ref block [rab$c_bln, byte], ! RAB for output
block [nsa_s_sysuaff, byte], ! SYSUAF auditing flags
block [2], ! Control mask for AUTHORIZE
                                                       faodsc
                                                      rabptr
                                                      uafsgq_sysuaff
uafsgl_ctlmsk
                                                                                     long initial (false), ! processing by account yector [naf$s_remname+2, byte], ! Saved match token
                                                       by_account
                                                      match_token
match_tokenlen
                                                                                 8
                                                                                    long.
```

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H 11
UAFMAIN
VO4-000
                                                                                                                                                                                                                 16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: EUAF.SRCJUAFMAIN.B32;1
                                                                                                                                                            ! wildcard access to proxy entries
: long initial (0), ! counter for reprocessing cmd line
: block [8, byte] preset ( [dsc$b_class]=dsc$k_class_d),
: block [8, byte],
                                                                                                        wild_netuser,
call_count
tokendsc
         cmdlindsc
                                                                                                        netuaf_exists, rdb_exists
                                                                                                                                                                                                                                                A self-explanatory flag...
                                                                                                                                                             : long,
                                                                                                                                                                                                                                                 save rms error codes here
RIGHTSLIST modified flag
                                                                                                                                                                   long,
                                                                                                         rightslist_modified : byte.
                                                     0798
0799
                                                                                     Record buffer for file I/O. Records are generally read into RECBUF,
                                                                                     modified, and output.
                                                   080123
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08
                                                                                                                                                             : block [uaf$c_length, byte],
: block [naf$c_length, byte],
                                                                                                         recouf
                                                                                                        netbuf
                                                                                    UAFRAB is global to allow UPDATE_RECORD to modify RAB$W_RSZ.
                                                                                                        uafrab : $rab (! RAB for work file
                                                                                                                                                             krf = 0
                                                                                                                                                             kbf = recbuf [uaf$t_username],
                                                                                                                                                            ksz = uaf$s_username,
usz = uaf$c_length,
                                                                                                                                                              fab = uaffab
                                                                                     RAB for NETUAF Proxy Login File
                                             999
                                                                                                        nafrab : Srab (
                                                                                                                                                             krf = 0.
                                                                                                                                                             kbf = netbuf [naf$t_remname],
                                             P
                                                                                                                                                            ksz = naf$s_remname,
usz = naf$c_length,
rsz = naf$c_length,
                                                                                                                                                             rac = key,
fab = naffab
                                                                                                                                                                                                                                           ! current system time ! Password default flag
                                                                                                        time_buf
                                                                                                                                                             : block [8,byte].
                                                                                                        pwd_flag
                                                                                                                                                             : long,
                                                                                                        outrab : $rab (
                                             222
                                                                                                                                                             rac = seq
                                                                                                                                                             rbf = disbuf,
                                                                                                                                                             fab = outfab
                                                                                                         Flag signaling to WILD_USER that a match was found. This flag
                                                                                                         is set by the action routine called by WILD_USER.
                                                     0840
                                                                                                                                                                                                                 ! found at least one wildcard match
                                                                                                         found_match,
                                                     0841
                                                                                     Wildcard parsing flags set by PARSE_WILD for use in WILD_USER.
                                                                                                        uic_flag
                                                                                                                                                             : long.
```

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I 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                                                                                                                                                                               grp_wild
mem_wild
str_wild
                    long,
                                                                                                                                                                                                                                                                                                                                                                                      long:
                                                                                                                                                                                     global bind
                                                                                                                                                                                                                                              tokenlen = tokendsc [dsc$w_length] : word,
tokenptr = tokendsc [dsc$a_pointer],
rec_user_dsc = uplit (uaf$s_username, recbuf [uaf$t_username]),
rec_encrypt_dsc = uplit (uaf$s_pwd, recbuf [uaf$q_pwd]),
symbol_str = cstring ('ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$_');
! valid username characters
                                                                                                                                                                                                                                               Prompt strings
                                                                                                                                                                                   bind
                                                                                                                                                                                                                                                                                                          = cstring (%char (lf),'UAF> '),
= cstring (%char (lf),' '),
= cstring ('Do you want to create a new file? ');
                                                                                                                                                                                                            accormpt
                                                                                                                                                                                                          accormpt2
newmsg20
                                                                                                                                                                                                                                                 External messages
                                                                                                                                                                                    external routine
                                                                                                                                                                                                          LIB$SIGNAL:
                                                                                                                                                                                   external literal
                                                                                                                                                                                                                                                                                                                                                                     UAFS ADDMSG,
UAFS BADUSR,
UAFS CONERR,
UAFS DEFERR,
UAFS GETERR,
UAFS KEYNOTUNQ,
UAFS KEYNOTUNQ,
UAFS NAFADDERR,
UAFS NAFADDERR,
UAFS NAFOONEMSG,
UAFS NAMETOOBIG,
UAFS NOUSERNAME,
UAFS ROBDONEMSG,
UAFS ROBDONEMSG,
UAFS REMERR,
UAFS RENDEF,
UAFS RONLY,
UAFS SYSMSG2,
UAFS ZISQUAL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        UAFS BADNODFORM,
UAFS CLIWARNMSG,
UAFS COPMSG,
UAFS DEFPUD,
UAFS HELPERR,
UAFS INVUSERNAME,
UAFS MDFYERR,
UAFS MDFYERR,
UAFS NAFADDMSG,
UAFS NAFADDMSG,
UAFS NAFADDMSG,
UAFS NAFADDMSG,
UAFS NAFADDMSG,
UAFS REMMSG,
UAFS RDBMDFYERR,
UAFS RDBMDFYERR,
UAFS REMMSG,
UAFS 
                                                                                                                                                                                                        UAFS ADDERR,
UAFS BADSPC,
UAFS CMDTOOLONG,
UAFS CREERR,
UAFS DONEMSG,
UAFS INVCMD,
UAFS KEYNOTFND,
UAFS LSTMSG1,
UAFS MDFYMSG,
UAFS NAFAEX,
UAFS NAFAEX,
                                                                                                                                                                                                            UAFS NAFDNE
                                                                                                                                                                                                            UAFS NAFUAEERR.
                                                                                                                                                                                                            UAFS NAOFIL,
UAFS NODEFPWD,
                                                                                                                                                                                                          UAFS NOTUNG,
UAFS PUTERR,
UAFS RDBMDF YERRU,
                                                                                                                                                                                                         UAFS REMSYS,
UAFS REMSYS,
UAFS REMSYS,
UAFS SYSMSGI,
UAFS UICERR,
```

```
UAFMAIN
VO4-000
                                                                                                                         VAX-11 Bliss-32 V4.0-742 PDISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                      start - controlling code
                                 %sbttl 'start - controlling code'
   routine start =
                                 begin
                     FUNCTIONAL DESCRIPTION:
                                           Main procedure of AUTHORIZE. Call SETUP to initialize all needed files. Prompt the user for the functions which he/she wants, and call the proper function service routine.
                                    INPUTS:
                                           none
                                    IMPLICIT INPUTS:
                                           none
                                   OUTPUTS:
                                           None
                                    IMPLICIT OUTPUTS:
                                           none
                                   ROUTINE VALUE:
                                           none
                                   SIDE EFFECTS:
                                           none
                                OWN
                                           status:
                                map
                                           cmdl indsc
                                                                  : vector;
                                bind
                                            foreign_cmdlindsc = uplit (cmdbuflen, cmdbuf);
                                rightslist_modified = false;
netuaf_modified = false;
modify_flag = false;
                                                                                                              ! note no modifications
                                    Set up terminal I/O
                                 if rmsbad (status = Sopen (fab = infab))
                                      signal_stop (.status);
```

```
K 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                 VAX-11 Bliss-32 V4.0-742 P
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                 start - controlling code
   if rmsbad (status = $connect (rab = inrab))
                          then
                               signal_stop (.status);
                          $create (fab = outfab);
$connect (rab = outrab);
                          setup ();
                            Files have been initialized. Prompt user for command line
                            and perform requested function.
                          if lib$get_foreign (foreign_cmdlindsc, 0, cmdlindsc) and .cmdlindsc [0] neg 0
                                If defined foreign, and there are commands on the line...
                              begin
cmdlindsc [1] = cmdbuf;
                                    if (status = cli$dcl_parse (cmdlindsc, authorize_commands))
                                    then
                                       begin
                                       clisdispatch ();
                                       return true;
                                       end
                                   else
                                         See if no CLINT exists (Kludge City, USA 37916)
                                        if .status eql clis_noclint
                                            signal_stop (clis_noclint)
                                            accSexit ()
                               end:
                          while true
                          do
                               begin
                                 Input the command line, taking care of continuations.
                                 the first token, assuming it is the command name, and look it up
                                 in the table of commands.
                               if get_cmd_line ()
                                   if (status = cli$dcl_parse (cmdlindsc, authorize_commands))
                                       begin
ch$fill (0, uaf$s_flags, uaf$gl_ctlmsk);
                                        clisdispatch ();
```

U

UAFI VO4	4AIN -000			sta	art ·	- cor	itrol	ling	cod	•				M 11 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
								64	65	76	6f	60	00000000 65 72	000C8 .ADDRESS P.AAU :
53	41	21	20	53	41 72	21 6F	20	4C 65 44	58 72 25	21 20 21	30 53 20		00000007 00000000 49 50 21 20 6F 20	00003
													00000025 00000000 3A 3A	00104 P.AAX: .LONG 37
										FFF	FFFF	F	00000002 00000000 FFB3B4C0	00110 P.AAZ: LONG 2 00114 .ADDRESS P.ABA 00118 P.ABB: LONG -5000000, -1
								54	40	55	41	46	45 44	00120 P.ABC: .BYTE 7 00121 .ASCII \DEFAULT\ 00128 P.ABD: .BYTE 4
						53	45	40	42	41	52 54	45 40	53 55 09 43 44	00128 P.ABD: .BYTE 4 00129 .ASCII \USER\ 0012D P.ABE: .BYTE 9 0012E .ASCII \DCLTABLES\
												40	03	00137 P.ABF: BYTE 0 00138 BLKB 0 00138 P.ABG: BYTE 3 00139 ASCII \DCL\ 0013C P.ABH: BYTE 0 0013D BLKB 0 0013D P.ABI: BYTE 0 0013E BLKB 0 0013E BLKB 0 0013F ASCII \CUSER]\ 00146 P.ABK: BYTE 0
									5D	52	45	53	00 06 55 5B	0013D
									JU				00	00146 .BLKB 2
										000	0000	0 (	00108000 00000000	00148 P.ABL: .LONG 1081344, 0 00150 P.ABM: .LONG 0.0
								62	4D 45	45	54	53	59 53 07 41 40 09 43 44	0015F P.ABO: BYTE 7
						53	45	52 40	42	41	54	4E 4C	41 4D 43 44	00167 P.ABP: .BYTE 9 00168 .ASCII \DCLTABLES\
									40	45	54	53	59 53 03	00171 P.ABQ: .BYTE 6 00172 -ASCII \SYSTEM\
	52	45	47	41	4E	41	4D	20	40	45	54	4C 53	59 53 43 44 59 53 00	00179 .ASCII \DCL\ 0017C P.ABS: .BYTE 14 0017D .ASCII \SYSTEM MANAGER\
							50	52	47	40	53	59	53 5B	0018C
													FFFFFFF	00195 P.ABV: .BYTE 0 00196 .BLKB 0 00196 .BLKB 2 00198 P.ABW: .LONG -1[2]

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UAF VO4	MAIN -000			sta	rt -	con	trol	ling	cod	e			1	117 -Sep-198 -Sep-198	4 02:16:	VAX-11 Bliss-32 V4.0-742 Page 2 DISK\$VMSMASTER:[UAF.SRCJUAFMAIN.B32;1 (3
					5453	54 55 49 49	55 50 40 40	50 52E 2E	455646 46	000 45 41 41 41	002445555454	0 00000000 53 59 53 53 59 53 54 45 4E 54 45 4E 41 44 2E	001A0 001A8 001B1 001BB 001C5 001CF 001D5 001D9	P.ABX: P.ABY: P.ACA: P.ACB: P.ACC: P.ACC: P.ACE: P.ACF:	ASCII ASCII ASCII ASCII ASCII ASCII ASCII	O O \SYS\$INPUT\ \SYS\$OUTPUT\ \SYSUAF.LIS\ \NETUAF.LIS\ \SYSUAF\ \.DAT\ \NETUAF\ \.DAT\
F	4E	4D	40	4B	44	49	48	47	46	45	44	00000020 000000000 00000008 00000000	001E4 001E8 001EC	P.ACG: P.ACH: P.ACI:	LONG ADDRESS LONG ADDRESS BYTE	1 32 RECBUF+4 8 RECBUF+340 38 \ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789\$_\
153 33	32	4D 31	30	4B 5A	59	49 58	48 57 5F	47 56 24	46 55 39 20	38 3E	53 37 46	43 42 41 52 51 50 36 35 34 41 55 0A 20 5F 0A 20 6F 44 65 72 63 3F 65 60	00204 00213 0021B 0021C 00222	P.ACJ: P.ACK:	AYTE	6 <10>\UAF> \
9	6F 66	74 20	20 77	74 65	6E 6E	61 20	77 61	20 20	75 65	6F 74	79 61 20	20 5F 0A 22 20 6F 44 65 72 63 3F 65 6C	00227 00236 00245 00249 00240	P.ACL:	ASCII BYTE ASCII BYTE ASCII BLKB LONG ADDRESS	<pre>&lt;10&gt;\_ \ 34 \Do you want to create a new file? \ 3 1024</pre>
												00000000	00250			\$OWN\$,NOEXE,2
												0013 01 0E 00000000°	00002	SD_ATTRI	BRESOURC .WORD .BYTE .ADDRESS .BUF:	14. 1 P.AAO
												00000000	00028	PCB SIS:	BLKB	USERNAME_BUF
												00000006	00036	RECNAME_ FILE_DSC	BLKB	USERNAME_BUF ;
													00044 00048	MOD_DEFA	.BLKB .BLKB .BLKB	6 4
													00040	MODIFY_F	.BLKB	4
												00		RENAME_P	H2:	9 :

UV

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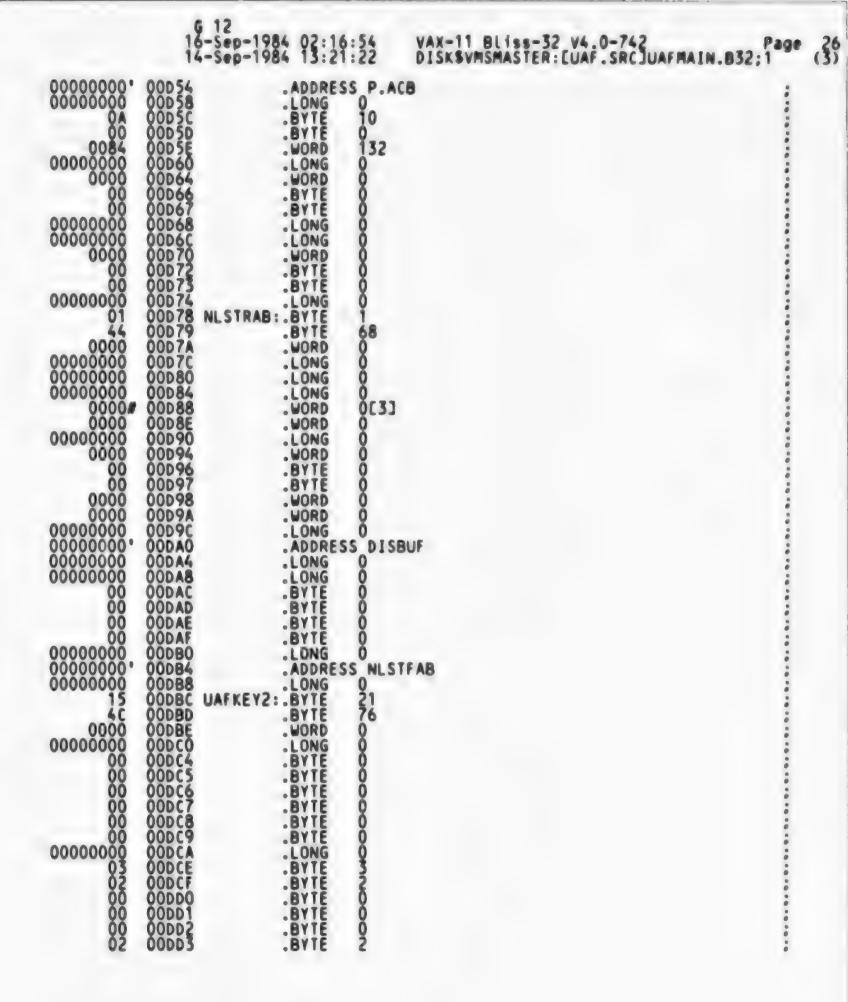
```
00058 OLDUSERLEN:
                                BLKB
             0005C OLDUSERNAME:
                                         32
                                BLKB
             0007C NEWUSERLEN:
                                .BLKB
             00080 NEWUSERNAME:
            000A0 CMDBUF: BLKB
004A0 DEFAULT_SIZE:
                                         32
1024
             004A2 DEFAULT_RECORD:
                                         1412
                               .BLKB
             00A28 PWDDSC: .BLKB
00A30 INSIZE: .BLKB
00A34 BRIEF_FLAG:
                                .BLKB
             00A38 FULL_FLAG:
             OOA3C HEADER_FLAG:
                               .BLKB
             00A40 INFAB:
             00A41
                               .BYTE
     0000
             00A42
                               . WORD
00000000
00000000
0000000
0000000
             00A44
                               .LONG
                               .LONG
             00A48
                               .LONG
             00A4C
             00A50
                               .LONG
                               . WORD
        03
                               .BYTE
                               .BYTE
00000000
             00A58
00A5C
                               LONG
BYTE
       00
             00A5D
                               .BYTE
       02
             00A5E
00A5F
                               .BYTE
                               .BYTE
.LONG
             00A60
             00A64
                               .LONG
             00A68
                               .LONG
             OOA6C
                               .ADDRESS P.ABY
             00A70
                               . LONG
                                         0
0000000
0000000
0000000
             00A74
                               BYTE
             00A75
00A76
                               .BYTE
                               . WORD
             00A78
                               .LONG
                               . WORD
       00
             00A7E
                               .BYTE
             OOA7F
                               .BYTE
00000000
                               . LONG
                               .LONG
             00A88
                               . WORD
00000000
             A8A00
                               .BYTE
             00A8B
00A8C
00A90
                               .BYTE
                               LONG BYTE
                     INRAB:
        01
             00A91
                               .BYTE
                                         68
```

0000		14-26b-13	04 13:21:22	DISKSAUSURS IEK: FONL 'SKCTONLUMIN'R25'!	(3)
00000000 00AAB LONG 0	40000000	00A94	.WORD 0 .LONG 107	3741824	
00000000 00AAB LONG 0	00000000	00A9C	LONG 0	1	
00 00AAF	0000	00AA6 00AA8	.WORD 0		
00000000 00ABC	0000	OOAAE	HUBD U		
00000000 00ABC	0000	00AB0	.WORD 0		
00000000	00000000	00AB4 00AB8	LONG 0		
00000000	00000000	00ABC 00ACO	LONG 0		
00000000	00	00AC5	BYTE 0		
00000000	00000000	00AC7 00AC8	BYTE 0		
00000000 00ADB	00000000	00AD0	.ADDRESS IN	FAB	
00000000	50	00AD5	BYTE 80		
00000000 00AEC	00000000	00ADS	LONG 0		
00000000 00AEC	00000000	OOAE4	.LONG 0		
00000000	01	OOAEA			
00000000 00AF4	00000000	OOAEC OOAFO	LONG O		
00000000 00AF4	00	00AF2	BYTE 2		
00000000 00AFC	00000000	00AF4	LONG O		
OA 00808 OO 00809 BYTE 0 OOO 0080A WORD 0 OOOO 00810 OO 00813 BYTE 0 OOOOOOO 00814 LONG 0 OOOOOOO 00818 LONG 0 OOOOOOO 00818 LONG 0 OOOOOOO 00818 BYTE 0 OO 00816 BYTE 0 OO 00816 BYTE 0	იიიიიიიი	OOAFC OOBOO	.LONG 0	ABZ	
0000 00B0A .WORD 0 0000000 00B0C .LONG 0 0000 00B10 .WORD 0 00 00B12 .BYTE 0 00 00B13 .BYTE 0 0000000 00B14 .LONG 0 0000000 00B18 .LONG 0 0000 00B1C .WORD 0 00 00B1E .BYTE 0	00000000	00804 00808	.LONG 0 .BYTE 10		
0000 00B10	0000	00B0A	WORD 0		
00000000 00B14 LONG 0 00000000 00B18 LONG 0 0000 00B1C WORD 0 00 00B1E BYTE 0 00 00B1F BYTE 0 00 00B20 LONG 0 02 00B24 LSTNAM: BYTE 2	0000	00B10	.WORD 0		
0000 00B1C .WORD 0 00 00B1E .BYTE 0 00 00B1F .BYTE 0 00000000 00B20 .LONG 0 02 00B24 LSTNAM: .BYTE 2	00000000	00B14	.BYTE 0		
00 00B1F .BYTE 0 00000000 00B20 .LONG 0 02 00B24 LSTNAM: .BYTE 2	0000	00B1C 00B1E	.WORD 0		
UZ UUBZ4 LSINAM: .BYIE Z	00000000	00B1F 00B20	BYTE O		
	02	OORS4 FRINAM:	.BTIE 2	•	

BYTE

BYTE

VO



UAFMAIN V04-000	start - controlling code		H 12 16-Se 14-Se	p-1984 02:16:54 p-1984 13:21:22	VAX-11 Bliss-32 v4.0-742 Page 27 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.832;1 (3)
		00000 00000 00000 00000 00000 00000 0000	00004 00008 000008 000000 000000 000000 000000	WORD WORD WORD WORD WORD WORD WORD WORD	

UA VC

UAFMAIN V04-000	start - controlling code		1 12 16-Sep-1984 02:16:54 14-Sep-1984 13:21:22	VAX-11 Bliss-32 V4.0-742 Page 28 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (3)
		00000 0000 0000 0000 0000 0000 0000 0000	14-Sep-1984 13:21:22  OOE 2E	KEY1

V(

VC

UAFMAIN VO4-000	start - controlling code		K 12 16-Sep-1984 02. 14-Sep-1984 1	16:54	VAX-11 Bliss-32 V4.0-742 Page 30 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (3)
UAFMAIN VO4-000	start - controlling code	000000000 000000000 000000000 00000000	OOF 2C OOF 2D OOF 2D OOF 3C OOF 36 OOF 37 OOF 38 OOF 38 OOF 40 OOF 40 OOF 42 OOF 42 OOF 43 OOF 44 OOF 44 OOF 45 OOF 45 OOF 46 OOF 47 OOF 48 OOF 48 OOF 40 OOF 50 OOF 50 OOF 50 OOF 51 OOF 52 OOF 52 OOF 54 OOF 55 OOF 56 OOF 56		
		0000000	00f 88 BYTE 00f 89 BYTE 00f 8A BYTE 00f 8B BYTE 00f 8C BYTE	00000	

UA VQ

code

	L 12 16-Sep-1984 02 14-Sep-1984 13	16:54 VAX 21:22 DIS	-11 Bliss-32 V4.0-742 Page K\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1	31 (3)
00 00 00 00	00F8D .BYTE	0		
00000000 00000000000000000000000000000	00F94 NAFKEYO: BYTT 00F95 BYTT 00F96 WORT 00F98 ADDI 00F9C BYTT	ESS NAFKEY1		
00000000	OOF 9F BYTE OOF AO BYTE OOF A1 BYTE OOF A2 LONE OOF A6 BYTE	00000		
00 00 00 00 00 00 00 00 00 00	00FA7	00000		
0000 0000 0000 0000	00fB0 .WORI 00fB2 .WORI 00fB4 .WORI 00fB6 .WORI 00fB8 .WORI			
0000 0000 40 000	00fBC .WORL 00fBE .WORL 00fC0 .WORL 00fC2 .BYTL 00fC3 .BYTL	0004		
00 00 00 00 00 00 00 00 00 00 00	OOF CO OO	60000000000000000000000000000000000000		
00000000 00 00 00 00	OOFDO .LONG OOFD4 .BYTE OOFD5 .BYTE OOFD6 .BYTE OOFD7 .BYTE	00000		
00 00 00 00 00 00 00	OOFD9 BYTE OOFDB BYTE OOFDC BYTE OOFDD BYTE OOFDC BYTE OOFDD BYTE	00000		
13	OOFEO NAFPRO: .BYTE	19	•	

VC

```
00FE1
00FE2
00FE4
00FE8
00FEA
                                                  .BYTE
   00000000
                                                  ADDRESS NAFKEYO
          FFOO
              00
                                                  BYTE
0000 0000
                                                  .WORD
                                                                       0
              00
                                                  BYTE
                     OOFF1
OOFF2
OOFF4
OOFF6
OOFFC
OOFFC
O1000
O1004
O1008
O1038
O1038
O1039
O1034
O1036
O1036
O1036
O1036
O1037
O1036
O1036
O1037
  00000000
00000000
00000000
00000000
   80
                      0103C
                                                  . LONG
                                                                 33554432
                      01040
01044
01048
0104C
                                                  .LONG
                                                  . LONG
                                                  .LONG
                                                  . WORD
                      0104E
0104F
01050
01054
01055
                                                  .BYTE
  00000000
00
20
00
01
                                                  .BYTE
                                                  .LONG
                                                  .BYTE
                                                  BYTE
BYTE
BYTE
                      01056
01057
  00000000°
00000000°
00000000°
00000000°
                      01058
0105C
                                                  . LONG
                                                  .ADDRESS NAFPRO
                      01060
01064
01068
0106C
0106D
0106E
01070
01074
01077
                                                                0
                                                  .LONG
                                                  ADDRESS P.ACE
                                                  BYTE.BYTE
  00000000
                                                                 100
                                                  . WORD
                                                  . LONG
                                                  WORD
                                                  BYTE
BYTE
LONG
   00000000
                      01078
0107C
                                                  LONG.
                       01080
                      01082 .BYTE
01083 .BYTE
01084 .LONG
01088 STATUS: .BLKB
              00
   00000000
                                                  .PSECT $GLOBAL$, NOEXE, 2
   00000084 00084 DISBUF::.BLKB
00000000 00088 DISDSC::.LONG
.ADDRE
                                                  .ADDRESS DISBUF
```

```
0008C FAODSC::.BLKB
            00098 UAFSGQ_SYSUAFF ::
            000A0 UAFSGL_CTLMSK::
00000000
            000A8 BY_ACCOUNT::
            OOOAC MATCH_TOKEN::
            000FO MATCH_TOKENLEN::
            000F4 WILD_NETUSER::
00000000 000F8 CALL_COUNT::
                             .LONG
       00# 000FC TOKENDSC::
                                       0[3]
            000FF
00100
00104 CMDLINDSC::
            0010C NETUAF_EXISTS::
            00110 RDB_EXISTS::
            00114 RMSERR:: BLKB 4
00118 RIGHTSLIST MODIFIED::
BCKB 1
            100
                                      68
0000
0000000
0000000
0000000
00000#
                             .LONG
                             .LONG
                             . LONG
. WORD
. WORD
                                      0[3]
                             LONG WORD
0000000
     0000
                             BYTE
                             . WORD
                                       1412
                             . WORD
00000000
                             .LONG
                             .LONG
                             .LONG
                             ADDRESS RECBUF+4
                             BYTE
BYTE
BYTE
BYTE
LONG
00000000
                             .ADDRESS UAFFAB
```

VO

	14	4-Sep-1984 13:21:22 D
00000000	00744 00748 00749	NAFRAB:: BYTE 1
0000 0000000 0000000 0000000 00000#	0074A 0074C 00750 00754 00758	BYTE 68 .WORD 0 .LONG 0 .LONG 0 .LONG 0 .LONG 0 .WORD 0[3]
00000000 0000 0000	0075E 00760 00764 00766	.WORD 0 .LONG 0 .WORD 0 .BYTE 1
00 0064 0064 0000000 0000000 00000000 00000000	00767 00768 0076A 0076C 00770 00774 00778	BYTE 0 .WORD 100 .WORD 100 .LONG 0 .LONG 0 .LONG 0 .ADDRESS NETBUF
40 00 00 00 00 00 00	0077C 0077D 0077E 0077F 00780	BYTE 64 BYTE 0 BYTE 0 BYTE 0 BYTE 0 LONG 0
00000000	00784 00788 0078C	.ADDRESS NAFFAB LONG 0
	00794	BLKB 8
01 44 0000 0000000 0000000 0000000 00000	00798 00799 0079A 0079C 007A0 007A4 007A8	BLKB 4 OUTRAB::BYTE 1 BYTE 68 WORD 0 LONG 0 LONG 0 LONG 0 WORD 0[3]
00000000	007AE 007B0 007B4 007B6	.WORD 0 .LONG 0 .WORD 0 .BYTE 0
00000000 00000000 00000000 00000000 0000	007B7 007B8 007BC 007C0 007C4	.ADDRESS DISBUF
00 00 00 00	007C8 007CC 007CD 007CE 007CF	LONG O LONG O BYTE O BYTE O BYTE O BYTE O LONG O
00000000		LONG
00000000	00700 00704 00708 00700	LONG 0 ADDRESS OUTFAB LONG 0 FOUND_MATCH:: BLKB 4

```
C 13
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                          VAX-11 BLiss-32 V4.0-742
DISK$VMSMASTER: EUAF.SRCJUAFMAIN.B32;1
007E0 UIC_FLAG::
                      .BLKB
007E4 GRP_WILD::
                      .BLKB
007E8 MEM_WILD::
                      .BLKB
007EC STR_WILD::
                     .BLKB
        SD_TOKEN1= P.
SD_TOKEN2= P.
SD_BRIEF= P.
SD_FULL= P.
SD_ADD_IDENTIFIER= P.
SD_REMOVE_IDENTIFIER=
                                       P.AAA
P.AAC
P.AAE
P.AAG
                                       P.AAI
         SD_MODIFY_IDENTIFIER=
                                       P.AAM
                                       132
         ENCRYPT==
         DISBUFLEN==
        SYSUAF STRING=
NETUAF STRING=
MOD_ACT_DSC=
ADD_ACT_DSC=
REM_ACT_DSC=
FAO_LIN_DSC=
DBL_COLON=
WAKEDELTA=
                                       P.AAP
                                       P.AAQ
                                       P.AAR
                                       P. AAT
                                       P. AAV
                                       P. AAX
                                       P.AAZ
                                       P.ABB
         DEFUSER=
                                       P.ABC
         DEFPASS=
                                       P. ABD
         DEFCLITABL=
                                       P.ABE
         DEFACT=
                                       P.ABF
         DEFCLI=
                                       P.ABG
         DEFOWNER=
                                       P.ABH
                                       P. ABI
128
128
         DEFLGICMD=
         DEFGRP=
         DEFMEM=
         DEFDIR=
                                       P.ABJ
         DEFDEV=
                                       P. ABK
         DEFBIOLM=
                                       4096
         DEFBYTLM=
         DEFDIOLM=
                                       50
         DEFFILLM=
         DEFFLAGS=
                                       10
         DEFTQCNT=
                                       24
         DEFPRCCNT=
         DEFPRI=
         DEFQUEPRI=
                                       200
150
500
0
         DEFWSQUOTA=
         DEFDFWSCNT=
         DEFWSEXTENT=
         DEFCPUTIM=
         DEFASTLM=
                                       10000
         DEFPGFLQUOTA=
DEFENQLM=
                                       10
         DEFPBYTLM=
DEFSHRFILLM=
                                       00
```

UAI VO

Page

```
D 13
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                              VAX-11 Bliss-32 V4.0-742 P
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
  DEFMAXJOBS=
DEFMAXACCTJOBS=
DEFMAXDETACH=
                            000
  DEFJTQUOTA=
DEFPRIMEDAYS=
                            1024
                            96
  DEFHOURS=
  DEFPRIV=
                            P. ABL
  DEFPWDLENGTH=
                            6
P. ABM
  DEFPWDLIFE=
                            P.ABN
P.ABO
P.ABP
  SYSUSER=
  SYSPASS=
  SYSCLITABL=
SYSACT=
                            P. ABQ
  SYSCL 1=
                            P. ABR
                            P. ABS
   SYSOWNER=
  SYSLGICMD=
                            P. ABT
  SYSGRP=
  SYSMEM=
  SYSDIR=
                            P. ABU
  SYSDEV=
                            P. ABV
  SYSBIOLM=
                            20480
12
20
0
20
10
  SYSBYTLM=
  SYSDIOLM=
  SYSFILLM=
  SYSFLAGS=
  SYSTOCHT=
  SYSPRCCNT=
  SYSPRI=
  SYSQUEPRI=
  SYSUSQUOTA=
                            1024
  SYSWSEXTENT=
  SYSDFWSCNT=
  SYSCPUTIM=
  SYSASTLM=
  SYSPGFLQUOTA=
                            10000
                            50
  SYSENQLM=
  SYSPBYTLM=
  SYSSHRFILLM=
  SYSMAXJOBS=
  SYSMAXDETACH=
  =ATOUDTL2Y2
                            1024
  SYSMAXACCTJOBS=
  SYSPRIMEDAYS=
                            96
  SYSHOURS=
  SYSPRIV=
                            P. ABW
  SYSPWDLENGTH=
  SYSPWDLIFE=
                            P. ABX
   TOKENLEN==
                            TOKENDSC
  TOKENPTR==
                            TOKENDSC+4
```

P.ACG

P.ACH P.ACI P.ACJ

P.ACK

P.ACH .EXTRN CLIS BUFOVF, CLIS NOCLINT

REC\_USER\_DSC==
REC\_ENCRYPT\_DSC==
SYMBOL\_STR==
ACCPRMPT=

FOREIGN\_CMDLINDSC=

ACCPRMPT2=

NEWMSG20=

```
E 13
16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 37
14-Sep-1984 13:21:22 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32:1 (3)
```

```
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.

LBRSOUTPUT HELP
LIBSGET FOREIGN
LIBSGET FOREIGN
LIBSGET INPUT. LIBSPUT OUTPUT
FMGSMATCH NAME, CLISDCE PARSE
CLISDISPATCH, CLISPRESENT
CLISGET VALUE, UPDATE RECORD
PARSE WILD, LGISHPWD
UAFSBUILD HOLDER
UAFSBUILD HOLDER
UAFSFIND DIC, UAFSREMOVE IDENT RECBUF
UAFSWRITE RIGHTS
EXESGL SYSUIC, RDB HEADER FLAG
RDB LIST FLAG, ATTRIBUTES
HOLDER, IDENT, AUTHORIZE COMMANDS
PRVSAB NAMES, LIBSSIGNAL
UAFS BADNODFORM
UAFS BADNODFORM
UAFS BADNODFORM
UAFS CADDERR, UAFS ADDMSG
UAFS CONERR, UAFS BADUSR
UAFS CLIWARNMSG
UAFS CONERR, UAFS BADUSR
UAFS CREERR, UAFS BEFERR
UAFS CREERR, UAFS BEFERR
UAFS CREERR, UAFS BEFERR
UAFS TINVUSERNAME
UAFS SETERR, UAFS LSTMSGI
UAFS STMSG2, UAFS NAFAEX
UAFS NAFADDMSG, UAFS NAOFIL
UAFS NADORDS, UAFS NAOFIL
UAFS NAONAF, UAFS NOOTOOBIG
UAFS NOODS, UAFS NOOTOOBIG
.EXTRN
 .EXTRN
 .EXTRN
   .EXTRN
   .EXTRN
   EXTRN
   EXTRN
   .EXTRN
   .EXTRN
  .EXTRN
  .EXTRN
   .EXTRN
   .EXTRN
 .EXTRN
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   .EXTRN
   .EXTRN
   EXTRN
   .EXTRN
   .EXTRN
 .EXTRN
   .EXTRN
   .EXTRN
   .EXTRN
   EXTRN
   .EXTRN
                                                                          PREMMSG, UAFS PUTERR RDBDONEMSG
    EXTRN
                                               UAF$
    EXTRN
                                               UAF S
    EXTRN
                                               UAF S
                                                                           RDBMDFYERR
                                                                          RDBMDFYERRU
RDBMDFYMSG
                                               UAF S
   .EXTRN
                                               UAF $
    EXTRN
                                           UAFS RDBMDFYMSG
UAFS RDBNOMODS, UAFS REMDEF
UAFS REMERR, UAFS REMMSG
UAFS REMSYS, UAFS RENDEF
UAFS RENMSG, UAFS RENSYS
UAFS RONLY, UAFS SHOW ERR
UAFS SYSMSG1, UAFS SYSMSG2
UAFS UAEERR, UAFS DICERR
UAFS ZISQUAL, UAFS ZZPRACREN
SYSSOPEN, SYSSCONNECT
SYSSCREATE
    EXTRN
    .EXTRN
    EXTRN
    .EXTRN
    .EXTRN
    EXTRN
    EXTRN
    EXTRN
   .EXTRN
 .EXTRN
```

.PSECT \$CODE\$, NOWRT, 2

UA VO

		5B 55A 55B 55B 55B 55B	000000006 000000006 000000006 000000006 000000	OF F 00 91 00 91 00 91 00 91 00 91 00 91 00 91 00 91	00002 00009 00010 00017 0001E 00025	START:	WORD MOVAB MOVAB MOVAB MOVAB MOVAB CLRB CLRB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 AUTHORIZE COMMANDS, R11 SYSSCONNECT, R10 #CLIS NOCLINT, R9 LIBSSTOP, R8 CMDLINDSC, R7 STATUS, R6 RIGHTSLIST MODIFIED	0902
	000000006 10	00 66 A7 05	EF C4 F 988	01 F1 50 D1 50 D1	00037 0003E 00041 00045		CALLS MOVL	MODIFY_FLAG INFAB #1. SYSSOPEN RO. STATUS RO. RMSERR RO. 18	0949
	10	68 6A 66 A7	FA08	66 DI 01 FI 06 91 01 FI 50 DI	0004D 00051 00054 00057	15:	BLBS PUSHL CALLS PUSHAB CALLS MOVL MOVL BLBS PUSHL	STATUS #1, LIB\$STOP INRAB #1, SYS\$CONNECT RO, STATUS RO, RMSERR	0957
	000000006	05 68 00	FA4C	50 El 66 DI 01 FI C6 9	0005E 00060 00063 00067	28:	PUSHAB	RO, 28 STATUS #1, LIB\$STOP OUTFAB #1, SYS\$CREATE	0961 0963
	00000000v	6A 00	0694	07 91 01 F1 00 F1 57 D1	9 0006E 9 00072 9 00075 9 0007C		CALLS PUSHAB CALLS CALLS PUSHL CLRL	OUTRAB #1, SYS\$CONNECT #0, SETUP R7	0964 0966 0973
	000000006	00 30	00000000°	7E DO 9! 03 F! 50 E! 67 D!	00080 00086 0008D		PUSHAB CALLS BLBC TSTL	-(SP) FOREIGN_CMDLINDSC #3, LIB\$GET_FOREIGN R0, 4\$ CMDLINDSC	
	04 000000006	A7 00 66	F018 0880	2C 11 C6 9I 8F BI	00092 00094 0009A		MOVAB PUSHR CALLS MOVL	4\$ CMDBUF, CMDLINDSC+4 #^M <r7,r11> #2, CLISDCL_PARSE</r7,r11>	0979 0981
	000000006	66 09 00 59		02 FI 50 DI 50 E 00 FI 43 1	000B2	38:	BLBC CALLS BRB CMPL	RO. 38 #O, CLISDISPATCH 78 STATUS. R9	0984 0985 0991
	V0000000V	00 00 F6	0880	00 FI 00 FI 50 E 8F BI 02 FI	000B7 000B9 000C0 000C7	48:	BEQL CALLS CALLS BLBC PUSHR	6\$ #0. ACCSEXIT #0. GET_CMD_LINE R0. 4\$ #^M <r7.r11></r7.r11>	0995 1008
00	000000006	00 66 10 6E		66 Di 37 1: 00 FI 50 E 8F BI 02 FI 50 E 00 A	00005 00008 0000B		CALLS MOVL BLBC MOVC5	#2, CLISDCL_PARSE RO, STATUS RO, 5\$ #0, (SP), #0, #8, UAF\$GL_CTLMSK	1013
	000000006	00		A7 00 FI 05 T	000E3	58:	CALLS BRB CMPL	#0, CLISDISPATCH 48 STATUS, R9	1014 1010 1017

UAFMAIN VO4-000	start - controlling code			1	6 13 6-Sep- 4-Sep-	1984 02:10 1984 13:21	5:54	VAX-11 BLiss-32 V4.0-742 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32	Page 39;1 (3)
	68	00 59 01 09	12 DD F8 11 DO 04	000EE 000F0 000F2 000F5 000F7	6\$: 7\$:	BNEQ PUSHL CALLS BRB MOVL RET	4\$ R9 #1. 4\$	L1B\$STOP R0	1019 1010 1022 1024

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + 0000

```
H 13
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
                               setup - open initial files
                                              %sbttl 'setup - open initial files' routine setup : novalue =
     begin
                                          うといいい
                                                  FUNCTIONAL DESCRIPTION:
                                                              This routine does all of the initial file manipulation for the program. It determines whether or not a previous SYSUAF.DAT exists. If not, it creates one (if the user wishes to proceed).
                                      IN OU IMP
                                                  INPUTS:
                                                              none
                                                  IMPLICIT INPUTS:
                                                              none
                                                  OUTPUTS:
                                                              none
                                                  IMPLICIT OUTPUTS:
                                                              none
                                                  ROUTINE VALUE:
                                                              none
                                                  SIDE EFFECTS:
                                                              none
                                                              status
                                                                                             : long,
                                                                                             : vector [2],
: vector [2],
: block [64, byte]
                                                              curpriv
                                                              procpriv
                                                             item list
newfile;
                                                                                                                               Indicates new file must
                                                                                                                               be created.
                                              item_list
                                                                [2.0.16.0]
[4.0.32.0]
[8.0.32.0]
[12.0.16.0]
14.0.16.0]
16.0.32.0] =
10.0.32.0] =
10.0.32.0] =
10.0.32.0] =
10.0.32.0] =
10.0.32.0] =
                                                                                          ipis_pid;
pid;
                                                                                       .....
                                                                                            12:
ipi$_username;
username_buf;
                                                                                             username_dsc[0];
                                                                                             jpis_curpriv;
                                                                                             curpriv:
```

VA

```
I 13
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                  setup - open initial files
                                                  item_list [36 item_list [40 item_list [44 item_list [48 item_list [50 item_list [56 item_list [56 item_list [60 item]]]
                                                                                                      8:
jpi$_procpriv;
procpriv;
0;
   1082
1083
1084
1085
1086
1087
1088
1090
1091
1093
1096
1097
1098
1099
                                                                                                  プライン
ファック
ファック
ファック
                                                                                                      jpi$_sts;
                                                                                                     pcb_sts;
                                                   $getjpi (itmlst = item_list);
                                                                                                                                 ! Obtain pid, username and privs
                                                  username_dsc[0] = namelen (uaf$s_username, username_buf);
                                                                                                               Open SYSUAF.DAT
                                  1101
                                 newfile = false:
                                                                                                                                        ! note no new file yet
                                                   if rmsbad ($open (fab = uaffab))
                                                       sysuaf.dat doesn't exist
                                                           begin
LIB$SIGNAL(UAF$_NAOFIL, 0, .rmserr);
if .rmserr eql rms$_fnf
                                                            then
                                                                    begin
                                                                   while true
                                                       Ask if a new one is desired
                                                                            begin
                                                                            ask (newmsg20, cmdbuf[0], cmdbuflen);
if .cmdbuf [0] eql 'Y'
then exitloop newfile = true;
if .cmdbuf [0] eql 'N'
then acc$exit ();
LIB$SIGNAL(UAF$_INVRSP);
                                                                            end:
                                                                    end
                                                           else
                                                                    accSexit ();
                                                           end:
                                                        The file will be created if it does not already exist.
                                                        In any case connect the RAB.
                                                   if .newfile
```

VO

```
UA
VO
```

```
UAFMAIN
VO4-000
                                                                                                                                                                                                                                         16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 PDISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                           setup - open initial files
     1047
1048
1049
1050
1051
1053
1054
1057
1058
1059
                                                          114434456789012345678901117777789012345678901117777789012345678901117777789012345678901117777789012345678901
                                                                                               A new file is requested
                                                                                                        if rmsbad (Screate (fab = uaffab))
                                                                                               Quit regardless of error on a $CREATE: don't
                                                                                               want to give read-only user ability to create a file
                                                                                                                    LIB$SIGNAL(UAF$_CREERR, 0, .rmserr);
                                                                                       if rmsbad ($connect (rab = uafrab))
then LIB$SIGNAL(UAF$ CONERR, 0, .rmserr);
then LIB$SIGNAL(UAF$ conercy is the control of the control
      Check to see if there was no old file to use. If so write a default and
                                                                                               a system manager record.
                                                                                        if .newfile
                                                                                        then
                                                                                                       begin
                                                                                                     modify_flag = true;
build ini_recs ();
uafrab[rab$w_rsz] = uaf$c_fixed;
                                                                                                                                                                                                                                                must rename when done
                                                                                                                                                                                                                                           ! build default and system manager records
                                                                                                     default_size = uaf$c fixed;
uafrab[rab$l_rbf] = default_record; ! insert default record address
if rmsbad ($put (rab = uafrab))
then LIB$SIGNAL(UAF$_PUTERR, 0, .rmserr); ! report error
uafrab[rab$l_rbf] = recbuf; ! establish proper address (and
                                                                                                                                                                                                                                                establish proper address (and
                                                                                                                                                                                                                                                address of system record)
                                                                                                      if rmsbad ($put (rab = uafrab)) ! out
then LIB$SIGNAL(UAF$_PUTERR, 0, .rmserr);
                                                                                                                                                                                                                                                output system record
                                                                               うちととという
                                                                                                      end
                                                                                              Read in the default record.
                                                                                                      begin
                                                                                                     uafrab[rab$l_ubf] = default_record;
if not locate_user (.defuser<0.8>, defuser+1, false)
then LIB$SIGNAL(UAF$_DEFERR, 0, .rmserr);
                                                                                                       default_size = .uafrab[rab$w_rsz];
                                                                                                       end:
                                                                                       uafrab[rab$l_ubf] = recbuf;
uafrab[rab$l_rbf] = recbuf;
                                                                                                                                                                                                                                          ! establish proper addresses
                                                           1192
1193
1194
1195
                                                                                                                                                                                              Open NETUAF DAT
      1101
1102
1103
```

```
UAFMAIN
VO4-000
                                                                                        16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                         VAX-11 Bliss-32 V4.0-742 PEDISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                      setup - open initial files
                      1196
1197
  2 netuaf_exists = true;
                                                                                        ! Assume NETUAF.DAT exists...
                      1198
                                   Try to open NETUAF.DAT and see what happens...
                                 if rmsbad (Sopen (fab = naffab))
                                 then
                                    Couldn't open it
                                       if .rmserr eql rms%_fnf
                                                                                ! it doesn't exist
                                            netuaf_exists = false
                                      else
                                            LIB$SIGNAL(UAF$_NAONAF, 0, .rmserr) ! open error for some other reason
                                else
                                   NETUAF.DAT opened without error
                                       if rmsbad ($connect (rab = nafrab))
                                      then LIB$SIGNAL(UAF$ NAFCONERR)
                                                                                            ! connect error
                                   Everything opened and connected, establish proper NETUAF addresses
                                            begin
                                            nafrab [rab$l ubf] = netbuf;
nafrab [rab$l_rbf] = netbuf;
                                            end:
                                   Check to see if the rights data base exists. Try to translate an ID and if we get a file not found error then it doesn't exist.
                                ident[uic$v_format] = uic$k_uic_format;
ident[uic$v_group] = 1;
ident[uic$v_member] = 4;
status = $idtoasc ( id = .ident );
if .status eql_rms$_fnf
                                       then rdb_exists = false
                                       else rdb_exists = true ;
                                end:
                                                                                                      .EXTRN SYS$GETJPI, SYS$PUT .EXTRN SYS$IDTOASC
                                                                           OFFC 00000 SETUP:
0 9E 00002
0 9E 00009
0 9E 00017
0 9E 0001E
0 9E 00025
                                                                                                                 Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
SYS$PUT, R11
SYS$CONNECT, R10
ACC$EXIT, R9
                                                                                                                                                                                 1026
                                                                                                      . WORD
                                                         MOVAB
                                                                                                      MOVAB
                                                                                                      MOVAB
                                                                                                                 SYSSOPEN, R8
NEWMSG20, R7
IDENT, R6
                                                                                                      MOVAB
                                                                                                      MOVAB
```

MOVAB

VO

SETUD	-	COAD	initial	files

L 13 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 44 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (4)

04 00 10 14 18 10 24 28 30 34	AE O AE O AE O AE	00000000000000000000000000000000000000	00 9E 00 9E	00045 00048 00050 00058 00056 00064 00060 00071 00074 00081 00081 00091		MOVAB MOVAB MOVAB PUSHL MOVAB CLRL MOVAB MOVAB MOVAB CLRL MOVAB CLRL MOVAB CLRQ CLRQ CLRQ CLRQ CLRQ	LIB\$SIGNAL, R5 USERNAME BUF, R4 RMSERR, R3 -76(SP), SP #51970052 PID, ITEM LIST+4 ITEM LIST*8 #33685516, ITEM LIST+12 USERNAME BUF, ITEM LIST+16 USERNAME DSC, ITEM LIST+20 #67108872, ITEM LIST+24 CURPRIV, ITEM LIST+28 ITEM LIST+32 #33876584, ITEM LIST+36 PROCPRIV, ITEM LIST+40 ITEM LIST+44 #50659332, ITEM LIST+48 PCB STS, ITEM LIST+52 ITEM LIST+56 -(SP) -(SP) ITEM LIST	1070 1072 1073 1074 1076 1077 1078 1080 1081 1082 1084 1085 1086 1088 1089 1092
28 A4 00000000G	00 20 20 20 68 63 4F	0EF0	7E D4 07 FB 20 SA 50 C3 52 D4 01 FB 50 E8 63 D0	0009D 0009F 000A6 000AA 000AF 000B1 000B5		CLRQ CLRL CALLS LOCC SUBL3 CLRL PUSHAB CALLS MOVL BLBS PUSHL	-(SP) #7, SYS\$GETJPI #32, #32, USERNAME_BUF R0, #32, USERNAME_DSC NEWFILE UAFFAB #1, SYS\$OPEN R0, RMSERR R0, 5\$ RMSERR	1094 1102 1104
00018292	65 8F 7E	000000006 0400 0098	7E D4 8F D0 03 FB 63 D1 36 12 8F 30 C4 9F	000C0 000C2 000C8 000CB 000D2 000D4 000D9	18:	CLRL PUSHL CALLS CMPL BNEQ MOVZWL PUSHAB	-(SP) #UAF\$ NAOFIL #3, LIB\$SIGNAL RMSERR, #98962 4\$ #1024, -(SP) CMDBUF	1111
00000000v 59	00 50 8F 52	0098	57 D0 03 FB C4 9A 50 91 05 12 01 D0 17 11	0000F 000EB 000EF		PUSHL CALLS MOVZBL CMPB BNEQ MOVL	R7 W3, ASK CMDBUF, R0 R0, W89 2\$ W1, NEWFILE 5\$	1121
4E	8F 69 65	00000006	17 11 50 91 03 12 00 FB 8F DD 01 FB	000FA 000FC 000FF		BRB CMPB BNEQ CALLS PUSHL CALLS	RO, #78 3\$ #0, ACC\$EXIT #UAF\$ INVRSP #1, LIB\$SIGNAL	1123 1124 1125
00000000G	69 1E 00	0EF0	00 FB 52 E9 C4 9F	0010A 0010D 00110	48: 58:	BRB CALLS BLBC PUSHAB CALLS	1\$ WO, ACCSEXIT NEWFILE, 6\$ UAFFAB W1, SYSSCREATE	1114 1129 1138 1143

catus		0000	init	i a l	files
secup	_	open	mit	Idi	Tites

en initial			50			1984 02:16 1984 13:21		1 (4)
	63 0D		50	DO 0011E E8 0011E DD 00121		MOVL BLBS PUSHL CLRL PUSHL	RO, RMSERR RO, 6\$ RMSERR	1149
		000000006	50 50 78 53 53 53	DD 00121 D4 00121 DD 00125 FB 00126 FB 0013 D0 0013		CLRL PUSHL	-(SP) WUAF\$ CREERR	
	65	05F0	03	FB 0012E FB 0013	68:	PUSHAB	W3, LTB\$SIGNAL UAFRAB	1151
	6A 63 0D		50	DO 00135 E8 00138		MOVL BLBS	#1, SYS\$CONNECT RO, RMSERR RO, 78 RMSERR	
			63 7E 8F 03	DD 0013E		MOVL BLBS PUSHL CLRL PUSHL CALLS	-(SP)	1152
060E	65	0000000G	8F 03	DD 00131 FB 00145 90 00148		CALLS	#UAF\$ CONERR #3, LTB\$SIGNAL #1, UAFRAB+30	1157
44	5 C		52 01	E9 00140 D0 00150		MOVB BLBC MOVL	NEWETT F 95	1153 1160 1163
00000000V	65 C3 5C A4 00 C3	0284 0284	00 8F 8F	FB 00154		MOVW	#0, BUILD INI RECS	: 1164
0612 0498 0618	C4 C3	0284 0490 05F0	8F C4	B0 00162 9E 00169		MOVAB	#644, DEFAULT_SIZE DEFAULT_RECORD, UAFRAB+40	1165 1167 1168
	6B 63 0D	USFU	C4 C3 01	9F 00170 FB 00174 D0 00177		PUSHAB CALLS MOVL BLBS PUSHL CLRL	#644, DEFAULT SIZE DEFAULT_RECORD, UAFRAB+40 UAFRAB #1, SYS\$PUT R0, RMSERR R0, 8\$ RMSERR	1169
	ÖĎ		50 63	E8 0017		BLBS	RO, 85 RMSERR	1170
	4.5	00000000G	500 503 785 833 C33	D4 0017F		LO2HF	MUAFS PUTERR	
0618	65	08 05F0	A3	FB 00187 9E 00187 9F 00190	85:	CALLS MOVAB PUSHAB	#3. LTB\$SIGNAL RECBUF, UAFRAB+40 UAFRAB	1171
	68 63 3F	0310	01	FB 00197 D0 00197	•	CALLS	N1, SYSSPUT RO, RMSERR	; 1173
	3F		50 50 63	E8 0019		BLBS PUSHL	RO, 115 RMSERR	1174
	65	0000000G	63 7E 8F 03	D4 0019F DD 001A1 FB 001A7		PUSHL	-(SP) #UAF\$ PUTERR #3, LIB\$SIGNAL	
0614	C3	0490	30	FB 001A7 11 001A7 9E 001A0	98:	CALLS BRB MOVAB	#3, LIB\$SIGNAL 11\$ DEFAULT_RECORD, UAFRAB+36	1160 1181 1182
		FEFB FEFA	ŽĖ CŽ	9F 001B		PUSHAR	-(SP) DEFUSER+1	1182
0000000v	7E 00	FEFA	C7 03	FB 001BE		MOVZBL CALLS BLBS PUSHL	DEFUSER, -(SP) #3. LOCATE USER	
	ÕĎ		C7CC056780CA31	E8 001C5 DD 001C8 D4 001C/		PUSHL CLRI	RMSERR -(SD)	1183
	65	00000000	8F 03	DD 001C0 FB 001D2 B0 001D3		CLRL PUSHL CALLS	WUAFS DEFERR #3, LIBSSIGNAL	
0498 0614 0618 F8	65 C4 C3 C3 A3	0612 08 08	C3	9E 001D	10\$: 11\$:	CALLS MOVW MOVAB	UAFRAB+34, DEFAULT_SIZE RECBUF, UAFRAB+36	1184
0618 F8	A3	1030	01	9E 001D0 9E 001E0 9E 001E0 9F 001E0 FB 001F0 DO 001F1 E8 001F0		MOVAB MOVL PUSHAB	WUAF\$ DEFERR  #3, LIB\$SIGNAL  UAFRAB+34, DEFAULT_SIZE  RECBUF, UAFRAB+36  RECBUF, UAFRAB+40  #1, NETUAF_EXISTS  NAFFAB	1188 1196 1201
	68 63 20	1030	01 50 50	FB 001F0		CALLS	#1. SYSSOPEN RO, RMSERR	1201

JAFMAIN V04-000	setup - open initial	files	N 13 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32	Page 46 2;1 (4)
	00018292	50 8F	63 DO 001F9	: 1206
		F8	A3 D4 00205 CLRL NETUAF_EXISTS 35 11 00208 BRB 15\$ 50 DD 0020A 12\$: PUSHL RO	1208
		00000000G	S 8F DD 0020E PUSHL #UAF\$ NAONAF	1210
		0634 63 08	03 FB 00214	1206 1216
		65 000000006	8F DD 00226 PUSHL #UAF\$ NAFCONERR 01 FB 0022C CALLS #1, LIB\$SIGNAL 0E 11 0022F BRB 15\$	1217
02 A6	0658 065C 03	C3 058C C3 058C A6 C0	C3 9E 00231 14\$: MOVAB NETBUF, NAFRAB+36 C3 9E 00238 MOVAB NETBUF, NAFRAB+40 8F 8A 0023F 15\$: BICB2 W192, IDENT+3 01 F0 00244 INSV W1, W0, W14, IDENT+2 04 B0 0024A MOVW W4, IDENT 7E 7C 0024D CLRQ -(SP)	1223 1224 1231 1232 1233 1234
	00000000 00018292	6 00 8F	66 DD 00253 PUSHL IDENT 06 FB 00255 CALLS #6, SYS\$IDTOASC 50 D1 0025C CMPL STATUS, #98962 04 12 00263 BNEQ 16\$ A3 D4 00265 CLRL RDB FXISTS	1235 1236
	FC	A3	04 00268 RET 01 D0 00269 16\$: MOVL #1, RDB_EXISTS 04 0026D RET	1237 1239

Routine Base: \$CODE\$ + 00FB

; Routine Size: 622 bytes,

```
UAFMAIN
VO4-000
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                      add_uaf - insert new user record
                                 %sbttl 'add_uaf - insert new user record' global routine add_uaf : novalue =
  begin
                                   FUNCTIONAL DESCRIPTION:
                                           Routine to add new user to authorization file.
                                    INPUTS:
                                           none
                                    IMPLICIT INPUTS:
                                           none
                                   OUTPUTS:
                                           none
                                   IMPLICIT OUTPUTS:
                                           none
                                   ROUTINE VALUE:
                                           none
                                   SIDE EFFECTS:
                                            A record is added to SYSUAF.DAT
                                 map
                                           tokenptr
                                                                 : ref vector [,byte];
                                 local
                                           user_dsc
                                                                 : vector [2]; ! descriptor for username in record
                                   Make sure a username was specified.
                                if not cli$present (sd_token1)
or not cli$get_value (sd_token1,tokendsc)
or .tokenlen eql 0
then return LIB$SIGNAL(UAF$_NOUSERNAME);
                                   ADD must check that the username supplied is not too long.
                                i***if .tokenlen gtr uaf$s_username
if .tokenlen gtr 12
then return LIB$SIGNAL(UAF$_NAMETOOBIG);
```

UAF VO4

```
UAFMAIN
VO4-000
                                                                                                                               VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                             16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                       add_uaf - insert new user record
  120789011234567890123456789012333456789012444567890123556789012
120711211212234567890123345678901244244567890125556789012
                                     Make sure a legal username was entered, otherwise the account may not be accessible via LOGIN or the Input Symbiont.
                                   incru 1 to .tokenlen - 1
                                        1304
1305
1306
1307
1308
1309
1310
                                         then return LIB$SIGNAL(UAF$_INVUSERNAME);
                                  user_dsc[0] = .tokenlen;
user_dsc[1] = recbuf[uaf$t_username];
                                     Move the default record to the current record buffer, so that fields which are not entered will receive the default
                       1312
1313
1314
1315
1316
1317
1318
1319
                                     value. Then insert the username just entered.
                                   ch$move (.default_size, default_record, recbuf);
ch$copy (.tokenien, .tokenptr, '', uaf$s_username, recbuf[uaf$t_username]);
                                     Call routine to fill in all supplied values. Exit if any errors
                                     were found.
                                  pwd_flag = true;
uafrab[rab$w_rsz] = .default_size;
uaf$gl_ctlmsk[uaf$v_add] = true;
if not update_record ()
                                                                                             ! plan to supply a password
                                   then
                                        uaf$gl_ctimsk[uaf$v_add] = false;
return;
                                        end:
                                  uaf$gl_ctlmsk[uaf$v_add] = false;
                                   if .pwd_flag
                                                                                             ! if no explicit password
                                   then
                                         begin
                                        end:
                                      Now output the new record.
                                   if rmsbad ($put (rab = uafrab))
```

UAF VO4

```
D 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 P. DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                     add_uaf - insert new user record
                                                                if .rmserr eql rms$ dup
then return LIB$SIGNAL(UAF$_UAEERR)
else LIB$SIGNAL(UAF$_ADDERR, 0, .rmserr)
   1263
1264
1266
1266
1266
1267
1268
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1281
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1290
1291
1293
                                     1354
1355
1357
1358
1359
1361
1363
1364
1368
1369
1370
                                                       else
                                                                 begin
                                                            Tell user that addition was successful. Note that file was changed.
                                                               LIB$SIGNAL(UAF$_ADDMSG);
if (.uaf$gl_ctlmsk[uaf$v_cli]
and (not .uaf$gl_ctlmsk[uaf$v_clitables]))
then LIB$SIGNAL(UAF$_CLIWARNMSG);
security_audit (nsa$k_recid_sysuaf_add);
modify_flag = true;
if (cli$present ( sd_add_identifier ) and
                                                                          .rdb_exists )
                                     1371
1372
1373
1374
1375
1376
1377
1378
1379
                                                                 then
                                                                          begin
                                                                              Add the appropriate identifiers.
Set the resource attribute if /ATTRIB=RESOURCE was specified
                                                                              and then add the appropriate identifiers to the rights data base
                                                                         if cli$present (sd_attribresource)
    then attributes = kgb$m_resource
    else attributes = 0 :
uaf$add_ident_recbuf () ;
                                     1380
                                      1381
                                     1382
1383
1384
                                                                         end:
                                                                 end:
                                                       end:
```

			.EXTRN	SYS\$GETTIM	
		OFFC 00000	.ENTRY	ADD_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-	: 1241
	5B 000000000 5A 000000000 59 00000000 58 00000000	00 9E 00002 00 9E 00009 00 9E 00010 00 9E 00017 08 C2 0001E	MOVAB MOVAB MOVAB SUBL2	LIBSSIGNAL R11 PWDDSC, R10 SD TOKEN1, R9 TOKENDSC, R8 #8, SP	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
000000006	00 12	59 DD 00021 01 FB 00023 50 E9 0002A	PUSHL CALLS BLBC	#1. CLISPRESENT RO, 18	1285
0000000G	00	58 DD 0002D 59 DD 0002F 02 FB 00031 50 E9 00038 68 B5 0003B 08 12 0003D 8F DD 0003F 18	PUSHL PUSHL CALLS BLBC TSTW	R8 R9 #2, CLI\$GET_VALUE R0, 1\$	1286
	00000006	08 12 0003D 8F DD 0003F 18:	BNEQ	TOKENLEN 28 #UAF\$_NOUSERNAME 6\$	1287 1288
	OC	68 B1 00047 2\$	: CMPW	TGKENLEN. #12	1294
	00000000G	08 1B 0004A 8F DD 0004C	BLEQU	#UAF\$_NAMETOOBIG	1295

UAF VO4

0698 C8	20	20	A8 20	04 FA7C	6E AE 56 CA 50	FA78 04	D8878865878	9E 3C 28 00 2C	00083 00085 00088 0008B 00090 00095 0009C		INCL CMPL BLEQU MOVZWL MOVAB MOVZWL MOVC3 MOVC5	TOKENLEN, R7 R7, USER_DSC RECBUF+4, USER_DSC+4 DEFAULT_SIZE, R6 R6, DEFAULT_RECORD, RECBUF TOKENPTR, R0 R7, (R0), #32, #32, RECBUF+4	1308 1316 1317
A4 A8 02 8A 000C4 9\$: BICB2 #2, UAF\$GL CTLMSK  3B 0698 C8 E9 000C8 BLBC PWD FLAG, TO\$ 6A 0120 C9 9B 000CD MOVAB DEFPASS.PWDDSC  04 AA 0121 C9 9E 000D2 MOVAB DEFPASS.1, PWDDSC+4  0690 C8 9F 000D8 PUSHAB TIME BUF  01 FB 000DC CALLS #1, SYS\$GETTIM  0186 C8 0693 C8 B0 000E3 MOVW TIME BUF+3, RECBUF+358  0188 C8 02 90 000EA MOVB #2, RECBUF+360  7E 0186 C8 3C 000F1 MOVZWL RECBUF+360, -(SP)  7E 0188 C8 9A 000F6 MOVZWL RECBUF+360, -(SP)  7E 0188 C8 9A 000F6 MOVZWL RECBUF+360, -(SP)  00000000G 00 01E4 C9 9F 000FD PUSHAB REC ENCRYPT DSC  00000000G 00 01 FB 00101 CALLS #5, LGISHPWD  00000000G 00 01 FB 00101 CALLS #1, SYS\$PUT  18 A8 50 D0 0013 MOVWL RO, RMSERR				000000006	C8 C8 A8 00 05	24	56 02	88 FB E8	000A5 000A7 000AC 000B1 000B5 000BC			#1. PWD_FLAG R6. UAFRAB+34 #2. UAF\$GL_CTLMSK #0. UPDATE_RECORD R0. 9\$	1324 1325 1326 1327
7E 0186 C8 3C 000F1 PUSHL SP 7E 0188 C8 9A 000F6 MOVZWL RECBUF+358, -(SP) 7E 0188 C8 9A 000F6 MOVZBL RECBUF+360, -(SP) 5A DD 000FB PUSHL R10 01E4 C9 9F 000FD PUSHAB REC_ENCRYPT_DSC 00000000G 00 05 FB 00101 CALLS #5, LGI\$HPWD 0608 C8 9F 00108 10\$: PUSHAB UAFRAB 0000000G 00 01 FB 0010C CALLS #1, SYS\$PUT 18 A8 50 00 00117 MOVL R0, RMSERR				04	A8 3B 6A AA	0698 0120 0121 0690	02 08 09 09	04 8A 89 9B 9F	41000	98:	BICB2 BLBC MOVZBW MOVAB PUSHAB	#2, UAFSGL_CTLMSK  #2, UAFSGL_CTLMSK  PWD FLAG, TOS  DEFPASS, PWDDSC  DEFPASS+1 PWDDSC+6	1330 1329 1334 1336 1339 1340
00000000G 00 05 FB 00101 CALLS #5. LGI\$HPWD 0000000G 00 0608 C8 9F 00108 10\$: PUSHAB UAFRAB 0000000G 00 01 FB 0010C CALLS #1. SYS\$PUT 18 A8 50 D0 00113 MOVL R0. RMSERR				0186 0188			02 5E	90 90 30 9A	000EF 000F1 000F6		MOVZWL	RECBUF+358, -(SP) RECBUF+360, -(SP)	1342 1343 1344 1344
000184EC 8F 50 D1 0011E CMPL R0, #99564				0000000G	00 88		C9 05	FB FB	00101 00108 0010C 00113	10\$:	PUSHAB CALLS MOVE	REC_ENCRYPT_DSC #5, LGI\$HPWD UAFRAB #1, SYS\$PUT	1352
00000000G 8F DD 00127 PUSHL #UAF\$ UAEERR 6B 01 FB 0012D 118: CALLS #1, LTB\$SIGNAL 04 00130 RET 50 DD 00131 128: PUSHL RO				000184EC		18 000000006	OA 8F	D1 12 DD	00117 0011A 0011E 00125 00127 00130 00131		PU2HL	WUAP 3_UAEERR	1354 1355

O00000000	UAFMAIN V04-000	add_uaf -	inse	rt new u	user	record			1	14 Sep-	984 02:16 984 13:21	:54	VAX-11 Bliss-32 V4.0-742 DISKSVMSMASTER: [UAF.SRC]UAFMA	NIN.B32;1 (5)
00000000G 00 P4 00195 15\$; CLRL ATTRIBUTES			000	000000v F624 000000G	68 A8 A8 68 00 CA 00 28 24	00000000G 00000000G 00010002	80134 8015 8016 8010 8010 8010 8010 8010 8010 8010	EEDFDFDFB9FB9FB9	00135 00138 00138 00137 00148 00148 00158 00158 00168 00167 00177 00177 00182 00180	138:	CLRL PUSHL CALLS RET	-(SP) #UAF \$ #3, L #1, L #3, L #1, L	ADDMSG IB\$SIGNAL JAF\$GL_CTLMSK, 14\$ JAF\$GL_CTLMSK,	1354 1363 1364 1366 1366 1366 1376
00000000G 00 00 FB 0019B 16\$: CALLS #0, UAF\$ADD_IDENT_RECBUF 04 001A2 17\$: RET			000	000000G	00	000000006	00	04	00195	15\$: 16\$: 17\$:	CALLS	ATTRI	BUTES JAFSADD_IDENT_RECBUF	138( 138) 1384

: 1

UAF VO4

```
UAFMAIN
VO4-000
                                                                                                               VAX-11 BL:ss-32 V4.0-742 Page DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                    add_proxy - insert new proxy record
                              %sbttl 'add_proxy - insert new proxy record' global routine add_proxy : novalue =
                              begin
                              1++
                                FUNCTIONAL DESCRIPTION:
                                        This routine adds an entry to the NETUAF.DAT Proxy Login File
                                 INPUTS:
                                        none
                                 OUTPUTS:
                                        none
                                 IMPLICIT INPUTS:
                                        TOKENLEN, TOKENPTR
                                 IMPLICIT OUTPUTS:
                                        none
                                 ROUTINE VALUE:
                                        none
                                 SIDE EFFECTS:
                                        A record is added to NETUAF.DAT
                              local
                                        node_len,
node_ptr,
                                        remuser_len,
remuser_ptr,
locuser_len,
locuser_ptr;
                                 Can't do anything if there is no NETUAF.DAT...
                              if not .netuaf exists
then return LIB$SIGNAL(UAF$_NAFDNE);
                                 Clear NETUAF.DAT buffer
                              ch$fill (' ', naf$c_length, netbuf);
                                Retrieve token from command line
```

```
UAFMAIN
VO4-000
                                                                                                 16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                        add_proxy - insert new proxy record
  135545
135545
135545
135557
135645
135645
135657
13565
136667
13775
13778
13884
13867
13867
13867
                        cliSget_value (sd_token1, tokendsc);
                                       Make sure entry is in proper node::remoteuser format
                                     if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
                                     then return:
                                       fill in NETBUF with new remotename field
                                    ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
                                       Now get second token, the local user name
                                    cli$get_value (sd_token2, tokendsc);
                                    locuser_len = .tokenlen;
locuser_ptr = .tokenptr;
!***if .locuser_len gtru naf$s_localuser
                                    if .locuser_len_gtru 12
then return LIB$SIGNAL(UAF$_NAMETOOBIG);
                                     ! If local name is *, then use same name as remote user
                        1469
1470
1471
1472
1473
1474
1475
1476
1477
1481
1482
1483
1484
1485
1486
                                    if .tokenlen eql 1 and . (.tokenptr)<0,8> eql '*'
                                    then
                                          begin
                                           locuser_len = _remuser_len;
                                          ch$move (naf$s_remuser, netbuf[naf$t_remuser], netbuf[naf$t_localuser]);
                                       Otherwise just copy into localuser field in NETBUF
  1388
1389
1390
1391
1392
1393
1394
1395
1396
1397
1400
1401
1403
1404
1405
1406
                                          Make sure that the local user does indeed exist in SYSUAF.DAT (unless local user is *)
                                    if not locate_user (.locuser_len, netbuf[naf$t_localuser], 0)
and not (.locuser_len eql 1 and . (netbuf[naf$t_localuser])<0,8> eql '*')
then return LIB$SIGNAL(UAF$_BADUSR, 2, .locuser_len, netbuf[naf$t_localuser]);
                         1488
                        1489
1490
1491
1492
1493
1494
                                    nafrab[rab$w_rsz] = naf$c_length;
                                       Add NETUAF.DAT record
                         1495
                        1496
1497
1498
                                    if rmsbad ($put (rab = nafrab))
                                     then
   1408
                                          begin
```

VA

```
UAFMAIN
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                                 16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                        add_proxy - insert new proxy record
  1409
1410
1411
1412
1413
1414
1415
1416
1417
1420
1421
1422
                                           if .rmserr eql rms%_dup
                         1500
1501
                                                return LIB$SIGNAL(UAF$_NAFUAEERR)
                         1502
1503
1504
1505
1506
1507
1508
                                                LIBSSIGNAL (UAFS_NAFADDERR, O, .rmserr)
                                           end
                                    else
                                          LIBSSIGNAL (UAFS_NAFADDMSG);
                                          security_audit (nsa$k_recid_netuaf_add);
                                    netuaf_modified = true:
                                    end:
                                                                                                                            ADD PROXY, Save R2,R3,R4,R5,R6,R7,R8,R9,R10 CLISGET VALUE, R10 LIBSSIGNAL, R9
                                                                                           00000
                                                                                   O7FC
                                                                                                                 . ENTRY
                                                               00000000
000000006
000000006
                                                                                00
00
00
10
                                                                                                                MOVAB
                                                                                           00009
                                                                                                                MOVAB
                                                                                           00010
                                                                                                                             NETBUF+64, R8
                                                                                                                MOVAB
                                                           5E
08
                                                                                           00017
                                                                                                                 SUBL 2
                                                                                                                             #16, SP
                                                                                                                             NETUAF EXISTS, 1$
                                                                FA2C
00000000G
                                                                                           0001A
                                                                                                                BLBS
                                                                                                                                                                                                  1432
                                                                                      DD
11
                                                                                           0001F
                                                                                                                PUSHL
                                                                                           00025
                                                                                                                BRB
      0064
                8F
                                      20
                                                                                 00
                                                                                      20
                                                                                                                MOVC5
                                                           6E
                                                                                                                             #0, (SP), #32, #100, NETBUF
                                                                                                                                                                                                  1438
                                                                                           0002E
00030
                                                                                      9F
9F
                                                                                C80025EAEA64050
                                                                                                                PUSHAB
                                                                                                                            TOKENDSC
                                                                                                                                                                                                  1443
                                                                      FA1C
                                                                                                                            SD_TOKEN1
#2. CLISGET_VALUE
                                                                00000000
                                                                                           00034
                                                                                                                PUSHAB
                                                                                           0003A
0003D
0003F
                                                                                      FB
                                                                                                                 CALLS
                                                                                                                PUSHL
                                                                                                                                                                                                  1448
                                                                         08
10
18
                                                                                                                PUSHAB
                                                                                                                            REMUSER_PTR
                                                                                                                            NODE_LEN
NODE_PTR
#4, REMOTE_PARSE
R0, 2$
                                                                                           00042
                                                                                                                PUSHAB
                                                                                           00045
                                                                                                                PUSHAB
                                          00000000V
                                                                                           00048
                                                                                                                CALLS
                                                                                           0004F
00052
                                                                                                                BLBS
                                                                                           00053
0005A
0005C
                                                                                AE
AB
6E
AB
                                                                         08
                20
                                                                                                                            NODE_LEN, aNODE_PTR, #32, #32, NETBUF
                                      20
                                                    00
                                                                                                                MOVC5
                                                                                                                                                                                                  1453
                                                           BE
                                                                                      20
                 20
                                                                                                                            REMUSER_LEN, @REMUSER_PTR, #32, #32, - NETBUF+32
                                      20
                                                           BE
                                                                                                                MOVC5
                                                                                                                                                                                                  1454
                                                                                            00062
                                                                00000000°
                                                                                           00064
00068
0006E
00071
00076
0007B
0007E
00086
00086
0008B
0008B
0008F
00094
                                                                                                                PUSHAB
                                                                                                                             TOKENDSC
                                                                                                                                                                                                  1459
                                                                                                                            SD_TOKEN2
#2, CLISGET_VALUE
TOKENLEN, LOCUSER_LEN
TOKENPTR, LOCUSER_PTR
LOCUSER_LEN, #12
                                                                                                                PUSHAB
                                                           6A
56
57
0C
                                                                                      FB 30 D1 18
                                                                                                                CALLS
                                                                                                                MOVZUL
                                                                                                                                                                                                  1461
                                                                      FAIC
                                                                      FAZÓ
                                                                                                                HOVL
                                                                                                                                                                                                  1462
                                                                                                                CMPL
                                                                                                                BLEQU
                                                                0000000G
                                                                                      DD
                                                                                                                                                                                                  1465
                                                                                                                PUSHL
                                                                                                                             MUAFS_NAMETOOBIG
                                                                                                                BRB
                                                                                                                                                                                                  1470
                                                                      FAIC
                                                                                                                             TOKENLEN, #1
                                                                                                                BNEQ
                                                                                                                             TOKENPTR, RO
                                                                      FA20
                                                                                                                MOVL
                                                                                                                BNEQ
```

UA

UAFMAIN V04-000		add_proxy -	insert	new p	гоху	record			1	1 14 6-Sep- 4-Sep-	1984 02:16 1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 Pa :22 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1	ge 55 (6)
		68			8		620 60 50 50	D0 28 11	00099 00090 000A1		MOVL MOVC3 BRB	REMUSER LEN, LOCUSER LEN #32, NETBUF+32, NETBUF+64 6\$	: 1473 : 1474 : 1470
	20	20		6	7		56 68	50	000A3	5\$:	MOVCS	LOCUSER LEN, (LOCUSER_PTR), #32, #32, - NETBUF+84	1481
			0000000		00	0140	68 7E 8F 03	04 88 F8	000A9 000AB 000AF 000B6	6\$:	CLRL PUSHR CALLS BLBS	-(SP)  #^M <r6.r8>  #3, LOCATE_USER R0, 8\$</r6.r8>	1487
				(	)î ?A		56 05 68 10	D1 12 91	000B9 000BC 000BE 000C1		CMPL BNEQ CMPB BEQL	LOCUSER_LEN, #1 78 NETBUF+64, #42	1488
						0140	8F 02	BB	000C3	78:	PUSHR	#^M <r6,r8></r6,r8>	1489
				6	9 000	000006	8F 04	00 FB 04	000C9 000CF 000D2		PUSHL PUSHL CALLS RET	WUAFS BADUSR W4, LIBSSIGNAL	
			800	A C	8	64	8F A8	9B 9F	00003	8\$:	MOVZBW PUSHAB	#100, NAFRAB+34 NAFRAB	1491
			0000000 FA3	06	8	00	01 50 50	FB 00 E8	000DC 000E3 000E8		CALLS MOVL BLBS	#1. SYSBPIIT	; 1470
			000184E	C 8	O IF	FA34	C8 50	DO 01	000EB 000F0		CMPL	RO, RMSERR RO, 11\$ RMSERR, RO RO, #99564 10\$	1499
				6	9 000	00000G	0A 8F 01	DD FB 04	000F7 000F9 000FF 00102	9\$:	BNEQ PUSHL CALLS RET	WUAFS NAFUAEERR W1, LIBSSIGNAL	1501
				6	9 000	000006	50 7E 8F 03	0040B	00103 00105 00107 0010D	10\$:	PUSHL CLRL PUSHL CALLS	RO -(SP) #UAF\$_NAFADDERR #3, LIB\$SIGNAL 12\$	1503
					000	00000G	16 8F 01	11 DD	00110	115:	BRB PUSHL	125	1498
					000	10003	8F	FB DD	00118 0011B		PUSHL	WUAF\$ NAFADDMSG W1 LIB\$SIGNAL W65539	1508
			0000000	0, 0	00		01 01	F8 D0 04		125:	CALLS MOVL RET	#1, SECURITY AUDIT #1, NETUAF_MODIFIED	1511 1512

Routine Base: \$CODE\$ + 050C

; Routine Size: 304 bytes,

```
K 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                               VAX-11 Bliss-32 V4.0-742 PDISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                    remote_parse - parses 'node::remoteuser'
                              %sbttl 'remote_parse - parses 'node::remoteuser''
  routine remote parse (node ptr, node len, remuser ptr, remuser len) =
                              begin
                              1++
                                FUNCTIONAL DESCRIPTION:
                                        This routine parses a remote user specification in the form
                                            node::remuser, and returns the two components by lengths
                                            and pointers to the strings
                                 INPUTS:
                                        node_ptr - returned as pointer to nodename
node_len - length of nodename
                                        remuser_ptr - returned as pointer to remote user name remuser_len - length of remote user name
                                                                            length of remote user name
                    IMPLICIT INPUTS:
                                        TOKENLEN and TOKENPTR - the remote user specification is assumed to have just been fetched from the command line
                                 OUTPUTS:
                                        none
                                ROUTINE VALUE:
                                        TRUE if parsed successfully
                                        FALSE if error encountered in parsing
                              map
                                        dbl_colon
                                                             : vector:
                              local
                                        dbl_colon_ptr;
                                Better be able to find a double colon in the remotename...
                              dbl_colon_ptr = ch$find_sub (.tokenlen, .tokenptr, 2, .dbl_colon [1]);
                              if .dbl_colon_ptr eql 0
or .dbl_colon_ptr eql .tokenptr
or .dbl_colon_ptr eql (.tokenptr + .tokenlen - 2) ! no remote user found
then return LIB$SIGNAL(UAF$_BADNODFORM);
                                Determine node length and pointer
                              .node_len = .dbl_colon_ptr - .tokenptr;
                               .node_ptr = .tokenptr;
```

1480

```
L 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                              remote_parse - parses 'node::remoteuser'
   1483
1483
1488
1488
1488
1491
1498
1498
1499
1501
1501
                              1570
1571
1572
1573
1574
1576
1576
1578
1581
1583
1584
1585
                                                 Make sure node name isn't too long
                                             i***if . (.node_len) gtru naf$s_node
if . (.node_len) gtru 6
then return LIB$SIGNAL(UAF$_NODTOOBIG);
                                                 Determine remote username length and pointer
                                             .remuser_len = .tokenlen - .(.node_len) - 2;
.remuser_ptr = .dbl_colon_ptr + 2;
                                                And make sure name isn't too long
                                            !***if . (.remuser_len) gtru naf$s_remuser
if . (.remuser_len) gtru 12
then return LIB$SIGNAL(UAF$_NAMETOOBIG);
                              1567
1588
1589
1590
1591
                                             return true:
                                             end:
                                                                                                        007C 00000 REMOTE_PARSE:
                                                                                                                                                          Save R2,R3,R4,R5,R6
TOKENLEN, R6
                                                                                                                                            . WORD
                                                                                                                                                                                                                                                1514
                                                                               00000000
                                                                                                                 00002
                                                                                                                                            MOVAB
                                                                         56
55
54
50
60
                                                                                                           9EC0009310023
                                                                                          04 A6
000 02
03
02
02
02
02
02
05
03
02
02
05
03
04
50
08
08
08
08
08
08
                                                                                                                                            MOVZWL
                                                                                                                                                           TOKENLEN, RS
                                                                                                                                                                                                                                                 1557
                                                                              000000000
                                                                                                                                                           TOKENPTR, R4
                                                                                                                 0000C
                                                                                                                                           MOVL
                                                                                                                 00010
                                                                                                                                                          DBL_COLON+4, RO
#2, (RO), R5, (R4)
                                                                                                                                           MOVL
                                               55
                    64
                                                                                                                                           MATCHE
                                                                                                                 0001C
                                                                                                                                           BEQL
                                                                                                                0001E
00021 1$:
00024
00026
00029
00028
00030
                                                                         53
53
                                                                                                                                                                 R3
R3
                                                                                                                                           MOVL
                                                                                                                                           SUBL 2
                                                                                                                                                                                                                                                 1559
1560
                                                                                                                                           BEQL
                                                                         54
                                                                                                                                           CMPL
                                                                                                                                                          DBL_COLON_PTR, R4
                                                                                                                                           BEQL
                                                                         50
50
                                                                                                                                                          -2(R5)[R4], R0
DBL_COLON_PTR, R0
                                                                                                                                           MOVAB
                                                                                                                                                                                                                                                 1561
                                                                                                                                           CMPL
                                                                               000000006
                                                                                                                                           PUSHL
BRB
MOVL
                                                                                                                                                                                                                                                 1562
                                                                                                                                                          MUAF $_BADNODFORM
                                                                                                                 0003D
00041
00046
                                                                                                                                                          TOKENPTR, RO
RO, DBL COLON PTR, aNODE LEN
RO, ANODE PTR
ANODE LEN, #6
                                                                         50
53
BC
06
                                                                                                                                                                                                                                                 1567
                                     80
                                               BC
                                                                                                                                           SUBL 3
                                                                04
                                                                                                                                            MOVL
                                                                                                                                                                                                                                                 1568
1574
                                                                                                           D1
18
                                                                                                                 0004A
                                                                                                                                           CMPL
                                                                                                                 0004E
00050
                                                                                                                                           PUSHL
                                                                               0000000G
                                                                                                                                                                                                                                                 1575
                                                                                                                                                          #UAF$_NODTOOBIG
                                                                                                           DD
                                                                                                                 00056
00058
00058
                                                                                                    10
66
BC
A0
A3
                                                                                                                                                          TOKENLEN, RO
aNODE LEN, RO
-2(RO), aREMUSER LEN
2(R3), aREMUSER PTR
aREMUSER_LEN, #T2
                                                                                                                                           MOVZWL
SUBL 2
MOVAB
                                                                                                                                                                                                                                                 1580
                                                                                                           3C
9E
9E
                                                                                          08
FE
02
10
                                                                10
00
                                                                                                                 0005F
                                                                                                                 00064
                                                                                                                                           MOVAB
                                                                                                    BC
                                                                                                                 00069
                                                                                                                                           CMPL
```

UA VO

WE AND COME OF COME OF

UAFMAIN VO4-000	remote_parse - parses						: 54 : 22	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1	58
	0000000G	000000006	0E 8F 01	1B 0006D DD 0006F FB 00075	5\$: C	LEQU USHL ALLS	6\$ #UAF\$ #1, L	NAMETOOBIG TB\$SIGNAL	1588
		50	01	04 0007C 00 0007D 04 00080	6\$: R	OVL	#1, R	0	1590 1591
; Routine Size:	129 bytes, Routing	Base: \$CODE\$	+ 06	3C					

```
N 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 PEDISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                               copy_uaf - copy user record
                                              %sbttl 'copy_uaf - copy user record' global routine copy_uaf =
                               1593
1594
1595
1596
1597
1598
1599
1600
   begin
                                               1++
                                                  FUNCTIONAL DESCRIPTION:
                                                              Routine to copy a user authorization record, giving the new authorization record a different name.
                                1601
                               16023456789011234567890112345678901123456789011234567890112345616161616161622456789011233456789011616444678
                                                   INPUTS:
                                                              none
                                                  IMPLICIT INPUTS:
                                                              none
                                                  OUTPUTS:
                                                              none
                                                  ROUTINE VALUE:
                                                                false if the copy fails;
                                                                true if the copy succeeds.
                                                  SIDE EFFECTS:
                                                              A user record is added.
                                              local
                                                              status,
flag,
lock_rec,
                                                              old_user_buffer : vector [uaf$s_username, byte];
                                              map
                                                              tokenptr
                                                                                             : ref vector [,byte];
                                              uaf$gl_ctlmsk[uaf$v_copy] = not .uaf$gl_ctlmsk[uaf$v_rename];
                                                 If this is a COPY directly from the UAF> prompt, the authorization record need not be locked, and the default and system records may be copied. HOWEVER, if this COPY is part of a RENAME operation, the record must be locked, and the default and system records may not be renamed. (The RENAME operation is similar to the COPY operation except that the original record is REMOVE'd. COPY leaves both records.)
                                               if not .uaf$gl_ctlmsk[uaf$v_rename]
                                               then
                                                      begin
```

VA

```
B 15
UAFMAIN
VO4-000
                                                                                                  16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 P
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                         copy_uaf - copy user record
                                           lock_rec = false;
def_sys = true;
flag = false;
  ! A COPY operation
                         1650
1651
1652
1653
1654
1655
1656
                                           end
                                    else
                                           begin
                                           lock_rec = true;
def_sys = false;
flag = true;
                                                                                                  ! A RENAME operation
                         1658
1659
                                           end:
                         1660
1661
1662
1663
                                          Place record to be copied into RECBUF
                                         (If the third argument is true, the call to GET_USER_RECORD is part of a RENAME operation, and the first token should be saved. If the third argument is false, the call is part of a COPY operation, and the first token need not be saved.)
                         1664
1665
1666
1667
1668
                                     if get_user_record (.lock_rec, .def_sys, .flag)
                         1669
                                     then
                                                                                                Make sure a username was
                         1670
                                           begin
                                                                                               specified
                        1671
1672
1673
1674
1675
1676
1677
1678
1679
                                           if not clispresent (sd_token2)
                                           or not cli$get_value (sd_token2, tokendsc) or .tokenien eql 0
                                           then return LIB$SIGNAL(UAF$ NOUSERNAME):
                                         Make sure that the new username isn't too long
                                           if .tokenlen gtru uaf$s_username
if .tokenlen gtru 12
                         1680
1681
1682
1683
1684
1685
1686
1688
                                           then LIB$SIGNAL(UAF$_NAMETOOBIG):
                                        Make sure that the new username is legal
                                           incru i to .tokenlen - 1
   1599
   1600
                                                 if ch$fail (ch$find_ch (.symbol_str<0,8>,
   1601
1602
1603
1604
                                                                                       symbol_str + 1
                                                                                       tokenptr [.i])
                         1690
                         1691
                                                 then return LIB$SIGNAL(UAF$_INVUSERNAME);
                         1692
1693
   1605
   1606
1607
1608
                         1694
                                        If this is a rename save the new user name
                        1695
1696
1697
1698
                                     if .uaf$gl_ctlmsk[uaf$v_rename]
  1609
1610
1611
1612
1613
1614
1615
1616
1617
                                     then
                         1699
1700
1701
1702
1703
                                           ch$move (.tokenlen, .tokenptr, newusername);
                                           newuserlen = .tokenlen;
                                           end :
                                        Place the new username in RECBUF, but save the old username first
```

```
C 15
UAFMAIN
VO4-000
                                                                                            16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                              VAX-11 Bliss-32 V4.0-742 P
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32:1
                       copy_uaf - copy user record
ch$move (uaf$s_username, recbuf[uaf$t_username], old_user_buffer);
                       ch$copy (.tokenlen, .tokenptr,
                                                     uaf$s_username, recbuf[uaf$t_username]);
                                        pwd_flag = true;
                                        status = update_record ();
if not .status
                                        then return false:
                                     If this is a copy operation then zero fill the last login info
                                   if not .uaf$gl_ctlmsk[uaf$v_rename]
                                  then
                                        begin
                                        recbuf[uaf$w_logfails] = 0 ;
ch$fill ( 0, uaf$s_lastlogin_i, recbuf[uaf$q_lastlogin_i] ) ;
ch$fill ( 0, uaf$s_lastlogin_n, recbuf[uaf$q_lastlogin_n] ) ;
                                        end :
                                     Now output the new record
  1640
1641
1643
1643
1644
1647
1649
1651
1653
1655
1657
1658
                                        if rmsbad ($put (rab = uafrab))
                                        then
                                              begin
if .rmserr eql rms$_dup
                                                    return LIB$SIGNAL(UAF$_UAEERR)
                                                                                                        ! username already exists
                                              else
                                                    LIBSSIGNAL (UAFS_ADDERR, 0, .rmserr);
                                                    return false:
                                                    end
                                              end
                                        else
                                     The copy was successful -- tell the user and set modify flag
                                            1660
1661
1662
   1663
   1664
1665
                                                   begin
LIB$SIGNAL(UAF$_COPMSG);
if (.uaf$gl_ctlmsk[uaf$v_cli]
and not .uaf$gl_ctlmsk[uaf$v_clitables])
and .uaf$gl_ctlmsk[uaf$v_clitab_pres]
then LIB$SIGNAL(UAF$_CLIQARNMSG);
  1666
1667
1668
1669
1670
1671
1673
1673
                                                      Since passwords are folded in with the username, passwords for COPYed records will no longer work—warn the user
                       1761
```

```
VA
```

```
UAFMAIN
                                                                                                             16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 P. DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
V04-000
                           copy_uaf - copy user record
                                                             if .pwd_flag
then LIB$SIGNAL(UAF$_DEFPWD);
uaf$gl_ctlmsk[uaf$v_copy] = false;
if (cli$present ( sd_add_identifier ) and
                           1676
1677
1678
   1679
                                                                    .rdb_exists )
   1680
                                                             then
   1681
                                                                    begin
   1682
1683
                                                                        Set the resource attribute if /ATTRIB=RESOURCE was specified
   1684
                                                                        and then add the appropriate identifiers to the rights data base
   1685
                                                                    if cliSpresent (sd_attribresource)
    then attributes = kgbSm_resource
    else attributes = 0;
   1686
1687
   1688
                                                                    uaf$add_ident_recbuf ()
   1689
   1690
                                                                    end:
   1691
                                                             end:
   1692
1693
                                                      end :
                                               end
   1694
   1695
   1696
                                            The attempt to GET_USER_RECORD failed...
   1697
   1698
                                        else return false:
   1699
1700
   1701
1702
1703
1704
                                            If we get here, everything succeeded -- return true
                                         return true:
  1705
                                        end:
                                                                                                                                           COPY_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; 1593
                                                                                              OFFC 00000
                                                                                                                              .ENTRY
                                                                                                                                          R11
CLISPRESENT, R11
NEWUSERNAME, R10
SD_TOKEN2, R9
LIBSSIGNAL, R8
UAFSGL_CTLMSK, R7
#32, SP
#0, #1, UAFSGL_CTLMSK, R0
R0, R0
R0, #2, #1, UAFSGL_CTLMSK
UAFSGL_CTLMSK, 1$
#1, DEF_SYS
FLAG
2$
#1, LOCK_REC
#1, FLAG
FLAG
DEF_SYS
                                                                       MOVAB
                                                                  5BA 587 50 50 51 50 50 51
                                                                                          9E9E9E2F90
                                                                                                      00009
00010
                                                                                                                              MOVAB
                                                                                                                              MOVAB
                                                                                                      00017
0001E
00025
00028
                                                                                                                              MOVAB
                                                                                                                              MOVAB
                                                                                                                              SUBL 2
                  50
                                                                                                                                                                                                                          1637
                                           67
                                                                                                                              EXTZV
                                                                                                      0002b
00030
00035
0003B
0003B
0003F
00042
00047
                                                                                          5560500055550
                                                                                                                              MCOMB
                  67
                                           01
                                                                                                                              INSV
                                                                                                 E8
                                                                                                                                                                                                                          1646
1650
1651
                                                                                                                              BLBS
                                                                                                                              MOVO
                                                                                                                              CLRL
                                                                                                                                                                                                                          1646
1655
1657
                                                                                                                              BRB
                                                                  52
                                                                                                 00
70
                                                                                                                              MOVL
                                                                                                                              MOVQ
                                                                                                 DD
DD
DD
FB
                                                                                                                                                                                                                          1668
                                                                                                                              PUSHL
                                                                                                                                           DEF SYS
LOCK REC
#3, GET_USER_RECORD
                                                                                                                              PUSHL
                                                                                                                              PUSHL
                                                                                                      0004B
                                                V0000000V
                                                                                                                              CALLS
```

UAFMAIN VO4-000		copy_ua	f - (	copy user r	• • • • • • • • • • • • • • • • • • • •	rd		1	5 15 6-Sep-1 4-Sep-1	1984 02:16 1984 13:21	5:54 VAX-11 Bliss-32 V4.0-742 1:22 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.	B32;1 (8)
					03	01	50	8 00052		BLBS	RO 38	*
					6B 14		59	D 00058 B 0005A P 00060 D 00063 B 00065 P 00066 D 00072	3\$:	PUSHL CALLS BLBC PUSHAB PUSHL CALLS BLBC TSTW BNEQ PUSHL	#1. CLISPRESENT RO. 4\$	1671
						5C	A7 59 1	F 00060 D 00063 B 00065		PUSHAB	TOKENDSC R9	1672
				000000006	00	8.0	01 50 57 59 50 50 50 50 50 50 50 50 50 50 50 50 50	9 00065 9 0006C		BLBC	TOKENDSC R9 W2. CLISGET_VALUE R0. 48	4.477
						5C 000000006	08	12 00072	48.	BNEO	TOKENLEN 58	1673
					00	50		00074 11 0007A	48;	BRB	WUAFS_NOUSERNAME	1674
					00	50	09	0007C 00080 00082 00088	39:	BLEQU	TOKENLEN, #12	1680
					68 53	000000006	01	B 00088	40.	CALLS	WUAFS NAMETOOBIG W1, LIBSSIGNAL TOKENLEN, R3 R3	1681
					23	50		0008F	03:	BRB CMPW BLEQU PUSHL CALLS MOVZWL DECL CLRL	R3 I 11\$	1686
					51 50 51	0100	C9 9	00095 00009A	7\$:	BRB MOVZBL MOVL	SYMBOL_STR, R1 TOKENPTR, R0 (I)[R0], R1, SYMBOL_STR+1	1688 1690
		0100	(9		51	62	02 1 51 I	12 00072 00 00074 11 00076 11 00076 18 00080 00 00082 18 00088 11 00093 11 00093 11 00093 12 00049 12 00049 12 00049	04.	MOVL LOCC BNEQ CLRL TSTL BNEQ PUSHL	(I)[RO], R1, SYMBOL_STR+1 8\$ R1 R1	
						000000006	08 1 8f	000AB 000AD 11 000B3		BNEQ PUSHL	10\$ #UAF\$_INVUSERNAME	1691
					53		52 1	06 000B5 01 000B7 01 000BA	9\$: 10\$: 11\$:	BRB INCL CMPL	14\$ I R3	1690
					10 56 50 60	5C 60	A7	9 000BC		BLEQU BLBC MOVZWL MOVL MOVC3	UAF\$GL_CTLMSK, 12\$ TOKENLEN, R6 TOKENPTR, R0 R6, (R0), NEWUSERNAME R6, NEWUSERLEN W32, RECBUF+4, OLD_USER_BUFFER TOKENPTR, R0 TOKENLEN, (R0), W32, W32, RECBUF+4	1696 1699
			6A	FC	60	00	56	00 000C3 28 000C7 00 000CB		MOVE 3	R6. (RO), NEWUSERNAME	1700
			<b>6E</b>	0080	AA C7 50	60	20 2	8 000CF	12\$:	MOVL MOVC3	#32, RECBUF+4, OLD_USER_BUFFER	1700 1706 1707
	50		20		60	60 50 0080	A7 2	00009		MOVL MOVC5		1707 1708
				06F4 00000000G	C7 00 4D	0000	A7 566 57 67 67 67 67 67 67	00 000C3 00 000CB 00 000CB 00 000CB 00 000D5 00 000E2 00 00E2 00 00F1 00 00F1 00 00F0 00 00F0		MOVL CALLS BLBC	#1, PWD_FLAG #0, UPDATE RECORD STATUS, 16\$ UAF\$GL_CTLMSK, 13\$ RECBUF 7356	1709 1711 1712
					14	01E0	67	8 000F1		BLBC BLBS CLRW	UAFSGL CTLMSK, 138	: 1718
	08		00		6E	0208		000F8		MOVC5	#0, (SP), #0, #8, RECBUF+396	1721 1722
	08		00		6E		00	20 00100		MOVC5	#0. (SP), #0, #8, RECBUF+404	1723
				00000000G 74	00 A7	0210 0664	C7 00 C7 C7 C7 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0	PF 00108 B 0010C 00 00113 E8 00117 00 0011A	138:	PUSHAB CALLS MOVL	UAFRAB M1. SYS\$PUT RO. RMSERR	1729
				000184EC	27 50 8F	74	50 A7 50	B 0010C 00 00113 8 00117 00 0011A 01 0011E		BL8S MOVL CMPL	RO. RMSERR RO. 17\$ RMSERR. RO RO. #99564	1732

1734

1736 1737

1738 1746 1747

1751 1754

1763 1764

1765 1766

1767 1774

1775

1776 1777

1791

1793

AA 01 50

00000000G

0019E

001A1 001A4 001A7

001AE 001B0 001B6 001BD 001C0 001C1 001C3

258:

BLBC

PUSHAB

ATTRIBUTES

#0, UAFSADD\_IDENT\_RECBUF

ATTRIBUTES

RO

CALLS BLBC

MOVL

MOVL

RET

CLRL

RET

BRB CALLS

: Routine Size: 452 bytes. Routine Base: \$CODE\$ + 06BD

0000000G

0000000G

```
G 15
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                     create proxy - create NETUAF.DAT proxy file
                                Isbttl 'create_proxy - create NETUAF.DAT proxy file' global routine create_proxy : novalue =
  begin
                                1++
                                  FUNCTIONAL DESCRIPTION:
                                          This routine will create a DECnet Proxy Login File, if and only if it does not already exist, called NETUAF.DAT, in order to map remote users into
                                           local accounts.
                                   INPUTS:
                                       none
                                   DUTPUTS:
                                       none
                                   IMPLICIT INPUTS:
                                           none
                                   IMPLICIT OUTPUTS:
                                           none
                                  SIDE EFFECTS:
                                          NETUAF.DAT is created and initialized
                     NETUAF.DAT should not already exist
                                if .netuaf_exists
                                then
                                     begin
LIBSSIGNAL (UAF$_NAFAEX);
                                     return:
                                     end:
                                   Should be able to create NETUAF.DAT with no problems
                                if rmsbad ($create (fab = naffab))
then LIB$SIGNAL(UAF$_NAFCREERR, 0, .rmserr);
                                   Should connect ok, too
                                 if rmsbad ($connect (rab = nafrab))
                                then LIB$SIGNAL(UAF$_NAFCONERR, 0, .rmserr);
```

UA

UAFMAIN V04-000	create	_proxy - create	NETUAF.DAT pro	xy file	H 15 16-Sep-1984 14-Sep-1984	02:16	5:54 VAX-11 BLiss-32 V4.0-742 1:22 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.E	Page	66
1764 1765 1766 1767 1768 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782	1851 1853 1853 1855 1856 1857 1868 1863 1864 1865 1866 1867 1868 1869	2 ! rafrab [rab\$l_2 nafrab [rab\$l_2 !	rac] = rab\$c_k oper addresses ubf] = netbuf; rbf] = netbuf; AT existence f						
		000000006	53 000000006 52 00000000 0A F8 000000006 63 000000000°	00 9E 0 00 9E 0 A2 E9 0 8F DD 0 01 FB 0 04 0 00 9F 0	0002 0009 0010 0014 001A 001D 001E 18:	ENTRY 10VAB 10VAB 3LBC 2USHL ALLS RET PUSHAB ALLS	CREATE PROXY, Save R2,R3 LIB\$SIGNAL, R3 RMSERR, R2 NETUAF EXISTS, 1\$ NUAF\$ NAFAEX N1, LIB\$SIGNAL NAFFAB N1, SYS\$CREATE R0, RMSERR	11	799 831 836 839 843
		000000006	000000006 63 0634 00 62 00	8F DD 00 03 FB 00 01 FB 00 50 D0 00 50 E8 00	0031 0033 0035 0038 003E 2\$: F0042 0042	OVL SLBS PUSHL SALLS PUSHAB SALLS SUSHL SLBS PUSHL SALLS SOVAB SOVAB	RO, RMSERR RO, 2\$ RMSERR —(SP) #UAF\$ NAFCREERR #3, LIB\$SIGNAL NAFRAB #1, SYS\$CONNECT RO, RMSERR RO, 3\$ RMSERR	11	84° 84°
		0652 0658 065C F8	00000000G 63 C2 C2 058C 058C	01 90 0	006F 0073	CLRL PUSHL SALLS SOVB SOVAB SOVL SOVL	-(SP) WUAF\$ NAFCREERR W3, LIB\$SIGNAL NAFRAB W1, SYS\$CONNECT R0, RMSERR R0, 3\$ RMSERR -(SP) WUAF\$ NAFCONERR W3, LIB\$SIGNAL W1, NAFRAB+30 NETBUF, NAFRAB+36 NETBUF, NAFRAB+40 W1, NETUAF_EXISTS W1, NETUAF_MODIFIED	18	85 86 86 86 86 86

; Routine Size: 123 bytes,

Routine Base:

\$CODE\$ + 0881

V/

```
I 15
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                       modify_uaf - update user record (s)
                                  %sbttl 'modify_uaf - update user record (s)' global routine modify_uaf : novalue =
  1785
1785
1786
1786
1787
1789
1791
1793
1793
1794
1795
1796
1797
1798
1801
1802
1803
1804
1806
1811
1813
1814
                                  begin
                                     FUNCTIONAL DESCRIPTION:
                                              Routine to modify any of the fields in one or more user records.
                       1880
1881
1882
1883
                                     INPUTS:
                                              none
                                     IMPLICIT INPUTS:
                                              none
                                     OUTPUTS:
                       1889
1890
1891
1892
1893
1894
                                              none
                                     IMPLICIT OUTPUTS:
                                              none
                        896
897
                                     SIDE EFFECTS:
                       1898
                                              none
                       1900
1901
1902
1903
1904
1905
1906
1907
1908
1908
1910
1911
1913
1916
1916
1921
1922
1923
                                     ROUTINE VALUE:
  1815
  1816
1817
                                              none
  1818
  1819
                                  local
                                              status;
                                     Obtain the user specification. This sets wildcard flags and initializes
                                     the appropriate key in RECBUF.
                                  if not parse_wild (sd_token1, false)
                                                                                                       ! Null string is disallowed
                                   then return:
                                  ua rab[rab$l_rop] = rab$m_rlk; ! Lock records for writing
rabptr = outrab;
                                   found_match = false;
                                  if rmsbad (status = wild_user (modify_rec)) ! Hodify each record
                                  then
                                        begin
                                         if .rmserr eql rms%_rnf
                                              LIB$SIGNAL (UAF$_BADSPC)
                                        else
```

U/V

```
V(
```

VAX-11 Bliss-32 V4.0-742 Page 68 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (10)

		54 53	00000000		01C 9E 9E	00000 00002 00009		ENTRY MOVAB MOVAB	MODIFY UAF, Save R2,R3,R4 LIB\$SIGNAL, R4 UAF\$GL_CTLMSK, R3 -(SP)	1871
	000000006	00	00000000.	00	04 9F FB	00010 00012 00018		CLRL PUSHAB CALLS BLBC MOVL	#2. PARSE_WILD	1913
	0668 F4	71 C3 A3	00080000 06F8 073C	000 70020 585 001	E9 00 9E 04	0001F 00022 0002B 00031		CLRL	RU, 45 #524288, UAFRAB+4 OUTRAB, RABPTR FOUND_MATCH	1916 1917 1918
	00000000v	00 A3	00000000v	00 01 50	9F FB DO	00035 0003B 00042 00046		PUSHAB CALLS MOVL	MODIFY REC #1, WIED USER STATUS, RMSERR	1920
	000182B2	00 A3 27 52 8F	74	50 50 A3 52	E8 D0 D1 12	00049 0004D		BLBS MOVL CMPL BNEQ	STATUS, 28 RMSERR, R2 R2, #98994	1923
			000000006	08 8F	12 DD 11	00054 00056 0005C		PUSHL	15 WUAFS RADSPC	1925
				52 31	D5	0005E 00060	15:	BRB TSTL BEQL	3\$ R2 4\$ R2	1927
		64	000000006	8F225157EF03	DD D4 DD FB	00062 00064 00066 00060		PUSHL CLRL PUSHL CALLS	R2 -(SP) WUAF\$ MDFYERR W3, LIB\$SIGNAL	1929
		16	073C 00000000G	C3	04 E9 DD	0006F 00070 00075	28:	RET BLBC BUSHI	FOUND_MATCH, 4\$	1922 1933 1936
11 0D 09		64 63 63		C3 8F 01 03 04 05 8F	FB E1 E0 E1	0007B 0007E 00082 00086		PUSHL CALLS BBC BBS BBC	WUAFS-MDFYMSG #1, LIBSSIGNAL #3, UAFSGL_CTLMSK, 48 #4, UAFSGL_CTLMSK, 48 #5, UAFSGL_CTLMSK, 48 #UAFS_CLIWARNMSG	1937 1938 1939
		64	000000006	8F 01	DD FB 04	0008A 00090 00093	38: 48:	PUSHL CALLS RET	#UAF\$ CLIWARNMSG #1, LIB\$SIGNAL	1940

UAFMAIN VO4-000

modify\_uaf - update user record (s)

K 15 16-Sep-1984 02:16:54 14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742 Page 69 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (10)

; Routine Size: 148 bytes, Routine Base: \$CODE\$ + OBFC

VC

```
L 15
16-Sep-1984 02:16:54
modify_rec - update a user record action routin 14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 PEDISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                  1944
                                                                                                 %sbttl 'modify_rec - update a user record action routine'
routine modify_rec =
1994678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678900
                                                                                         NAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVALANAVA
                                                                                                  begin
                                                                                                  1++
                                                                                                         FUNCTIONAL DESCRIPTION:
                                                                                                                                  Modify an individual user record.
                                                                                                          INPUTS:
                                                                                                                                  none
                                                                                                          IMPLICIT INPUTS:
                                                                                                                                  RABPIR - RMS data structure for the file
                                                                                                         OUTPUTS:
                                                                                                                                  none
                                                                                                          IMPLICIT OUTPUTS:
                                                                                                                                  none
                                                                                                          SIDE EFFECTS:
                                                                                                                                  none
                                                                                                         ROUTINE VALUE:
                                                                                                                                  If an error is encountered the appropriate status is returned
                                                                                                                                  except if the error message has already been output in which case 0 is returned.
                                                                                                 Local
                                                                                                                                                                  : $hblock[4],
: $bblock[4],
: vector [uaf$s_account,byte],
: vector [uaf$s_account,byte],
                                                                                                                 old_uic
                                                                                                                 new_uic
oldaccname
                                                                                                                  newacchame
                                                                                                                                                                          statdesc .
                                                                                                                  oldaccdesc
                                                                                                                  newaccdesc
                                                                                                                                                                  : statdesc ,
                                                                                                                  status
                                                                                                                                                                  : Long ;
                                                                                                         User record has been read into RECBUF by caller. Update values and modify the record.
                                                                                                        When accessing records by uic, this routine is called repeatedly from WILD_USER. UPDATE_RECORD is called to modify the appropriate record fields for each requested record, and therefore must reparse the command line each time. If call_count is greater than 0, the command line is reparsed.
```

V

```
UAFMAIN
VO4-000
                      modify_rec - update a user record action routin 14-Sep-1984 02:16:54
                                                                                                                         VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
  ととととととととと
                                 !IF .by_account
                                 THEN
                                        (IF NOT fmg$match_name (NAMELEN (UAF$S_ACCOUNT,UAF$T_ACCOUNT), RECBUF[UAF$T_ACCOUNT],
                                                                                   .match_tokenlen, match_token)
                                          THEN
                                            RETURN TRUE)
                                 !ELSE
                                 if .str_wild and not fmg$match_name (namelen (uaf$s_username,recbuf[uaf$t_username]),
                                                                  recbuf[uaf$t_username]
                                                                  .match_tokenlen, match_token)
                                 then return true:
                                 found_match = true;
                                 if ch$eql (.defuser<0,8>, defuser+1, .tokenlen, .tokenptr, '')
or ch$eql (.defuser<0,8>, defuser+1,
                                                namelen (uaf$s_username, recbuf[uaf$t_username]),
recbuf[uaf$t_username],
)
                                                recbuf[uaf$t_username],
                                 then
                                       begin
                                       mod_default = true;
                                       default_uaf ();
                                       call_count = .call_count + 1;
                                       return true:
                                       end:
                                    Save the old UIC and account name
                                 old_uic[uic$v_format] = 0;
                                old_uic[uic$v_group] = .recbuf [uaf$w_grp]
old_uic[uic$v_member] = .recbuf [uaf$w_mem]
                                ch$move ( uaf$s account, recbuf[uaf$t account], oldaccname );
oldaccdesc [length] = namelen ( uaf$s account, recbuf[uaf$t account]);
oldaccdesc [pointer] = oldaccname;
                                 if update_record ()
                                 then
                                       begin
                                         Save the new UIC and account name
                                      new_uic[uic$v_format] = 0 ;
new_uic[uic$v_group] = .recbuf [uaf$w_grp]
new_uic[uic$v_member] = .recbuf [uaf$w_mem]
                                      ch$move ( uaf$s_account, recbuf[uaf$t_account], newaccname );
newaccdesc [length] = namelen ( uaf$s_account, recbuf[uaf$t_account]);
                                      newaccdesc [pointer] = newaccname ;
                                         Update the UAF record
                                       if rmsbad ($update (rab = uafrab))
                                       then
```

LIB\$SIGNAL(UAF\$\_MDFYERR, 0, .rmserr);

```
N 15
16-Sep-1984 02:16:54
modify_rec - update a user record action routin 14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                    VAX-11 Bliss-32 V4.0-742 Page 72 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (11)
 1973
1974
1975
1976
1977
1978
1980
1981
1983
1984
1985
                 return .rmserr
                                     end
                                else
                                     begin
                                    modify_flag = true;
security_audit (nsa$k_recid_sysuaf_mod);
                                    call_count = .call_count + T;
                                if (cli$present ( sd_modify_identifier ) and
                                    .rdb_exists )
                                     begin
  1986
1987
  1988
                                       If the UIC changed then modify the identifiers
  1989
  1990
                                     if .old_uic neq .new_uic
  1991
1992
1993
                                     then
                                         begin
                                         local
  1994
1995
                                              oldidname
                                                                : vector [kgb$s_name, byte],
                                              oldiddesc
                                                                : statdesc :
  1996
1997
                                         oldiddesc[length] = kgb$s_name ;
  1998
                                         oldiddesc[pointer] = oldidname :
                                                                       = .old_uic,
  1999
                                         status = $idtoasc ( id
  namien = oldiddesc[length],
                                                                nambuf = oldiddesc );
                                        then
                                                  begin
                                                  status = $mod_ident ( id
                                                                                       = .old_uic,
                                                                           new_value = .new_uic );
                                                  if not .status
    then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, oldiddesc, .status)
                                                            rightslist_modified = true ;
                                                           LIBSSIGNAL TUAFS_RDBMDFYMSG, 1, oldiddesc);
                                                  end:
                                         end:
                                    end
                                return true :
                                end
                           else
                                $release (rab = uafrab);
                                return false
                                end
```

UAFMAIN V04-000 ; 2030 modify\_rec - update a user record action routin 14-Sep-1984 02:16:54 2115 1 end;

VAX-11 Bliss-32 V4.0-742 Page 73 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (11)

.EXTRN SYSSUPDATE, SYSSMOD\_IDENT .EXTRN SYSSRELEASE

							07FC	00000	MODIFY_R	EC:		0015
				30	5A 59 58 5E AE	000000000 00 00000000 00 00000000 00 010E0000 86 010E0000 86 06CC 68	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	00002 00009 000010 000017 000018 000026 000031		WORD MOVAB MOVAB MOVAB MOVAB MOVL CLRL CLRL BLBC MOVAB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10 LIB\$SIGNAL, R10 DEFUSER+1, R9 RECBUF+4, R8 -120(SP), SP #17694720, OLDACCDESC OLDACCDESC+4 #17694720, NEWACCDESC NEWACCDESC+4 STR WILD, 18 MATCH TOKEN, R5 RECBUF+4, R3 #32, #32, RECBUF+4 -32(R0), R2 R2, R2 MATCH TOKENLEN, R4 FMG\$MÄTCH_NAME R0, 38 #1, FOUND MATCH DEFUSER, R4 TOKENPTR, R0 R4, DEFUSER+1, #32, TOKENLEN, (R0)	1945
				28	AE	010E0000 8	00	00026		MOVL	#17694720, NEWACCDESC	1987
					1F 55	06CC C8	69 9E	00031		BLBC	STR WILD, 18 MATCH TOKEN, R5	2009
			68		1F 55 53 20 52 54	E0 A(	3A 9E CE	0003D 00041 00045		LOCC MOVAB MNEGL	#32, #32, RECBUF+4 -32(RO), R2 R2, R2	2010
						00000000G 00	) 16	00048 0004C		JSB	MATCH_TOKENLEN, R4 FMG\$MATCH_NAME	2011
DC	A8		20	0680	37 C8 54 50 69	EO AS		00052 00055 0005A 0005E	1\$:	MOVL MOVZBL MOVL CMPC5	RO. 35 #1, FOUND MATCH DEFUSER, R4 TOKENPTR, RO R4, DEFUSER+1, #32, TOKENLEN, (RO)	2014 2016
			4.0		20	60	13	00068			2\$	
	50		68 50 20		50 50	20 50 54	13 3A C3 20	0006F		BEQL LOCC SUBL3 CMPC5	2\$ #32, #32, RECBUF+4 R0, #32, R0 R4, DEFUSER+1, #32, R0, RECBUF+4	2018
	70		20		07	68		00078		BNEQ		
				00000000v	00	01 00 08 A8	12 00 FB 06	00078 00082 00089	28:	MOVL CALLS INCL	4\$ #1, MOD DEFAULT #0, DEFAULT_UAF CALL_COUNT 10\$	2022 2023 2024 2025 2031 2032 2033 2034
	56		02 0E		1E	22 45	FO	0008F	41:	BRW INSV INSV	#0, #30, #2, OLD UIC	2031
		58	AE	30	10 56 A8	D8 A8 0122 00 22 A8 20 A8	F 0 F 0 B 0 28	0009A		MOVU	RECBUF+36, OLD UIC #32, RECBUF+52, OLDACCNAME	2033
		30 30	A8 AE	74	50	50	3A A3 9E FB	000A4		LOCC SUBW3	#32, #32, RECBUF+52 RO, #32, OLDACCDESC	2033
				000000006	20 AE 00 03	58 AE	) to	00083 0008A		LOCC SUBW3 MOVAB CALLS BLBS	#0, #30, #2, OLD UIC RECBUF+38, #16, #14, OLD_UIC RECBUF+36, OLD UIC #32, RECBUF+52, OLDACCNAME #32, #32, RECBUF+52 RO, #32, OLDACCDESC OLDACCNAME, OLDACCDESC+4 #0, UPDATE_RECORD RO, 58 118	2036
	57 57		0E		1E 10 57	00F 00 22 A8 20 A8	FO	00000	5\$:	BRW INSV INSV	#0, #30, #2, NEW_UIC RECBUF+38, #16, #14, NEW_UIC	2044 2045 2046 2047 2048
		38 30 28	AE AE	30	A8 20 20	22 A8 20 A8 20 20	F 0 F 0 B B 0 28 3 A 3	000AE 000BA 000BA 000BD 000CO 000CS 000CB 000CF		MOVW MOVC3 LOCC SUBW3	#0, #30, #2, NEW UIC RECBUF+38, #16, #14, NEW_UIC RECBUF+36, NEW UIC #32, RECBUF+52, NEWACCNAME #32, #32, RECBUF+52 RO, #32, NEWACCDESC	2047

JAFMAIN VO4-000 mod	ify_rec - update a	user record a	tion routin 14-Se	-1984 02:16 -1984 13:21	5:54 VAX-11 BLiss-32 V4.0-742 DISKSVMSMASTER: [UAF.SRC]UAF	Page 74 FMAIN.B32;1 (11)
	000000006 F 4	AE 05E4		MOVAB PUSHAB CALLS MOVL BLBS PUSHL	NEWACCNAME, NEWACCDESC+4 UAFRAB #1, SYSSUPDATE RO. RMSERR	2049
		6A 00000000G	AE 9E 0000F C8 9F 000E8 50 D0 000EF 50 E8 000F3 AB DD 000F6 7E D4 000F9 BF DD 000FB 03 FB 00101 AB D0 00108 01 D0 00109 6\$:  01 D0 00109 6\$:  01 FB 00116 AB D6 00110 C9 9F 00120 01 FB 00124 50 E9 0012E 50 E9 00135 AB D0 00141	PUSHL	RO 68 RMSERR -(SP) **UAF\$ MDFYERR **3, LIB\$SIGNAL RMSERR, RO	205
	00000000°	50 F4	04 00108 01 00 00109 6\$:	MOVL RET MOVI		2058
	0000000v	00030002	01 D0 00109 6\$: 8F DD 00110 01 FB 00116 A8 D6 0011D C9 9F 00120	MOVL PUSHL CALLS INCL PUSHAB	#1 MODIFY_FLAG #196610 #1, SECURITY_AUDIT CALL_COUNT SD_MODIFY_IDENTIFIER	2062 2063
	0000000G	D8 FF63	A8 D6 0011D C9 9F 00120	INCL PUSHAB	CALL COUNT SD_MODIFY_IDENTIFIER	2061 2061
	00000000	00 70 7F 57	01 FB 00124 50 E9 0012B A8 E9 0012E 56 D1 00132	CALLS BLBC BLBC CMPL BEQL MOVL	#17 CLISPRESENT RO. 8\$ RDB_EXISTS. 10\$ OLD_UIC. NEW_UIC 10\$	2068 207
		6E 010E0000	7A 13 00135 8F DO 00137 AE D4 0013E 20 B0 00141 AE 9E 00144	MOVL	#17694720, OLDIDDESC	2080
	04	6E AE 08	AE 9E 00144	CLRL MOVU MOVAB CLRQ	#17694720, OLDIDDESC OLDIDDESC+4 #32, OLDIDDESC OLDIDNAME, OLDIDDESC+4 -(SP)	2082 2083 2086
		0¢ 10	7E D4 00148	CLRL PUSHAB PUSHAB PUSHL CALLS	-(SP) OLDIDDESC OLDIDDESC OLD_UIC	0
	000000006	00 52 17	AE 9F 0014D AE 9F 00150 56 DD 00153 06 FB 00155 50 DO 0015C 52 E8 0015F 52 DD 00162 56 3C 00164	MOVL BLBS	OLD_UIC #6, SYS\$IDTOASC RO, STATUS STATUS, 7\$	2088 2091
7E	56	7E 0E	56 3C 00164 10 EF 00167	MOVZWL	STATUS OLD_UIC, -(SP) #16, #14, OLD_UIC, -(SP) #2	2090 2089
		6A 00000000G	02 00 00100	MOVL BLBS PUSHL MOVZWL EXTZV PUSHL PUSHL CALLS	WUAF\$ RDBMDFYERRU WS, LIB\$SIGNAL 10\$	2089
				PUSHL	NEW UIC	2096
	000000006	00 52 12	05 FB 00181 50 D0 00188 52 E8 0018B 52 DD 0018E	CLRQ CLRL PUSHL CALLS MOVL BLBS PUSHL PUSHL PUSHL CALLS	-(SP) OLD_UIC #5. SYS\$MOD_IDENT R0. STATUS STATUS. 9\$ STATUS	2098 2099
		04 000000006	AE 9F 00190 01 DD 00193 8F DD 00195 04 FB 00198	PUSHL PUSHL	OLDIDDESC #1 #UAF\$ RDBMDFYERR #4, LIB\$SIGNAL	8 8 8 8
	F8	A8	11 11 0019E 8\$: 01 90 001A0 9\$: 5E DD 001A4 01 DD 001A6 8F DD 001A8	BRB MOVB PUSHL	#1, RIGHTSLIST_MODIFIED SP	2102 2103
		0000000G	01 DD 001A6 8F DD 001A8	PUSHL PUSHL	#1 #UAF\$_RDBMDFYMSG	

UAFMAIN VO4-000	modify_rec - update	a user	record	action	D 16 16-Sep routin 14-Sep	-1984 02:16 -1984 13:21	:54 VAX-11 BLiss-32 V4.0: :22 DISKSVMSMASTER: [UAF.	-742 SRCJUAFMAIN.B32;1 (11)
		6A 50		03	FB 001AE 00 001B1 10\$: 04 001B4 9F 001B5 11\$:	MOVL	#3. LIB\$SIGNAL #1, RO	2111
	0000000	00 00	05E4	C8 01 50	9F 00185 11\$: FB 00189 04 00100 04 00102	PUSHAB CALLS CLRL RET	#3. LIB\$SIGNAL #1, RO UAFRAR #1. SYS\$RELEASE RO	2112 2113 2113

; Routine Size: 451 bytes, Routine Base: \$CODE\$ + 0990

UAFMAIN VO4-000	remove_uaf - remove username from file	f 16 16-Sep-1984 02:16:54 14-Sep-1984 13:21:22	VAX-11 Bliss-32 V4.0-742 Page 77 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (12)
2089 2090 2091 2093 2093 2094 2096 2097 2098 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110	2173 4 2174 5 2175 5 2176 5 2177 5 2178 5 2179 5 2180 5 2181 5 2182 5 2183 5 2184 5 2185 5 2186 5 2187 6 2188 6 2189 5 2190 5 2191 4 2192 3 2194 1 end;  then begin lif there is a proxy log the user just removed the user just remove lif .netuaf_exists then adjust_proxy (remove LIB\$SIGNAL(UAF\$_REMMSG); lif (cli\$present (sd_remove_ident_recomplete to the user just remove the corresponding rights data base.  if (cli\$present (sd_remove_ident_recomplete to the user just remove ident_recomplete to the user just remove the corresponding rights data base.  if (cli\$present (sd_remove_ident_recomplete to the user just remove ident_recomplete to the	quested not to ng identifier from the ove_identifier ) and	or .

## .EXTRN SYSSDELETE

	53	000000000	00	00C 9E 9E	00000 00002 00009		.ENTRY MOVAB	REMOVE_UAF, Save R2,R3 LIB\$SIGNAL, R3 RMSFRR, R2		2117
00000000v	52 7E 00 6C		01 02 50 C2	7D FB E9	00010 00013 0001A		MOVQ CALLS BLBC	RMSERR, R2 #1, -(SP) #2, GET_USER_RECORD R0, 3\$		2155
000000006	00	05F0	C2 01 50	9F FB DO	0001D 00021 00028		PUSHAB CALLS MOVL	UAFRAB #1, SYS\$DELETE R0, RMSERR		2163
	62 0E		50 62 7E 8F	E8 DD D4	0002B 0002E 00030		BLBS PUSHL CLRL	RO, 15 RMSERR -(SP)		2165
	63	0000000G	8F 03	DD FB 04	00032 00038 0003B		PUSHL CALLS RET	#UAF\$ REMERR #3, LIB\$SIGNAL	8	
00000000°	00 42	8C 00020002	01 A2 8F	DO E8 DD	0003C 00043 00047	15:	MÖVL BLBS PUSHL	#1, MODIFY FLAG UAFSGL CTLMSK, 38 #131074		2168 2169 2171
00000000v	00 31 09	8C F8	01 A2 A2	FB E8 E9	0004D 00054 00058		CALLS BLBS BLBC PUSHL	#1, SECURITY AUDIT UAFSGL_CTLMSR, 3\$ NETUAF_EXISTS, 2\$		2172
00000000v	00	000000006	01 8F	DD FB DD	0005C 0005E 00065	2\$:	PUSHL	#1. ADJUST PROXY	# 0 #	2180
000000006	63	00000000	01 00 01	FB 9F FB	0006B 0006E 00074		CALLS PUSHAB CALLS	#1, LTB\$SIGNAL SD_REMOVE_IDENTIFIER #1, CLISPRESENT	•	2187
000000006	0B 07 00	FC	\$0 <b>A2</b> 00	E9 E9	0007B 0007E 00082		CALLS BLBC BLBC CALLS	#1, CLISPRESENT RO, 3\$ RDB_EXISTS, 3\$ #0, UAF\$REMOVE_IDENT_RECBUF	**************************************	2188 2190

UAFMAIN VO4-000

G 16 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 78 remove\_uaf - remove username from file 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (12)

04 00089 3\$: RET

; 2194

; Routine Size: 138 bytes, Routine Base: \$CODE\$ + OB53

```
H 16
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                         VAX-11 Bliss-32 v4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                   remove_proxy - remove a proxy record
                   2195
2196
2197
2198
2199
2201
2201
2202
2203
  *sbttl 'remove_proxy - remove a proxy record'
                            global routine remove_proxy : novalue =
                            Gegin
                               FUNCTIONAL CHARACTERISTICS:
                                      This routine removes proxy login entries from NETUAF.DAT
                               INPUTS:
                   none
                               OUTPUTS:
                                      none
                               IMPLICIT INPUTS:
                                      none
                               IMPLICIT OUTPUTS:
                                      none
                               ROUTINE VALUE:
                                      none
                               SIDE EFFECTS:
                                      An entry is removed from NETUAF.DAT
                            local
                                      node_len,
                                      node_ptr,
                                      remuser_len,
                                      remuser_ptr,
                                      counter.
                                      SUCCESS:
                               Make sure NETUAF.DAT exists
                            if not .netuaf exists then return LIBSSIGNAL (UAF$_NAFDNE);
                               Retrieve remote name in node::remotename form
                             cli$get_value (sd_token1, tokendsc);
                              Verify proper format
```

```
UAFMAIN
VO4-000
                                                                                            16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                               VAX-11 BLiss-32 V4.0-742 POISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32; 1
                       remove_proxy - remove a proxy record
  if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
                                   then return:
                                     Copy into appropriate fields
                                   ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
                                  nafrab[rab$l_rop] = rab$m_rlk;
                                  success = get_proxy_record ();
                                     Delete the record
                                  if .success
                                  then
                                        begin
                                         if rmsbad ($delete (rab = nafrab))
                                              LIB$SIGNAL(UAF$_REMERR, 0, ,rmserr)
                                              begin
                                              security_audit (nsa$k_recid_netuaf_del);
LIB$SIGNAL(UAF$_PREMMSG);
                                              end:
                                        end
                                  else
                                        LIB$SIGNAL (UAF$_REMERR);
                                  netuaf_modified = true;
                                  end:
                                                                                                                      REMOVE PROXY, Save R2,R3,R4,R5,R6,R7,R8 #UAF$ REMERR, R8 LIB$SIGNAL, R7
                                                                                      00000
                                                                                                                                                                                        2196
                                                                               .ENTRY
                                                            000000000
000000000
000000000
                                                                                                           MOVL
                                                                            00
                                                                                      00009
                                                                                                           MOVAB
                                                        56
5E
0A
                                                                                                                      RMSERR, R6
#16, SP
NETUAF EXISTS, 18
#UAF$ NAFDNE
                                                                                                           MOVAB
                                                                                      00010
00017
0001A
0001E
00024
00027
00028
0002B
00031
00038
0003A
0003A
                                                                                                           SUBL 2
                                                                            86
01
                                                                                                           BLBS
                                                                                                                                                                                         2242
                                                             000000006
                                                                                                           PUSHL
                                                                                                           CALLS
                                                                                                                      #1. LIBSSIGNAL
                                                                                                           RET
                                                                                                           PUSHAB
                                                                                                                                                                                         2248
                                                                            A6005EEEE400
                                                                                                                      TOKENDSC
                                                             00000000
                                                                                                           PUSHAB
                                                                                                                      SD_TOKEN1
#2. CLISGET_VALUE
                                        00000000G
                                                                                                           CALLS
                                                                                                                                                                                         2253
                                                                                                           PUSHL
                                                                                                                      REMUSER PTR
NODE_LEN
NODE_PTR
#4. REMOTE_PARSE
RO, 6$
                                                                     08
10
18
                                                                                                           PUSHAB
                                                                                                           PUSHAB
                                                                                                           PUSHAB
                                                                                                           CALLS
                                              FA17
```

UAFMAIN V04-000		remove_prox	y - remove	a p	roxy record			1	J 16 6-Sep-1 4-Sep-1	1984 02:16 1984 13:21	6:54 VAX-11 Bliss-32 V4.0-742 Page 1:22 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (1
	20	20	00	38	08 058C	AE	20	00048		MOVC5	NODE_LEN, @NODE_PTR, #32, #32, NETBUF : 22
	20	20	04	38		A66666	20	00055		MOVC5	REMUSER LEN, AREMUSER PTR, #32, #32, -
			0638 00000000v	06 00 31	00080000	8F 00 50	D0 FB E9	0005E 00067 0006E		MOVL CALLS BLBC	REMUSER_LEN, BREMUSER_PTR, #32, #32, - NETBUF+32 #524288, NAFRAB+4 #0, GET_PROXY_RECORD SUCCESS, 3\$ NAFRAB 22
			0000000G	00 66 08	0634	01 50 50 7E	9F FB D0 E8 D0	00071 00075 0007C 0007F 00082 00084		MOVL CALLS BLBC PUSHAB CALLS MOVL BLBS PUSHL CERL PUSHL CALLS	NAFRAB #1. SYS\$DELETE R0. RMSERR R0. 2\$ RMSERR -(SP)
			00000000v	67	00020003	58 03 1A 8F	DD FB 11 DD FB	00088 0008B 0008D 00093	28:		#131075
			00000000	00	0000000G	8F 01 8F 02	DD 11	0009A 000A0	70.	PUSHL CALLS PUSHL BRB	#1. SECURITY AUDIT #UAFS_PREMMSG 22 4\$ R8 #1. LIB\$SIGNAL
			00000000	67 00		01	F B D O O 4	000A4 000A7 000AE	38: 48: 58: 68:	PUSHL CALLS MOVL RET	R8 #1, LIB\$SIGNAL #1, NETUAF_MODIFIED  22 22

; Routine Size: 175 bytes, Routine Base: \$CODE\$ + OBDD

K 16 16-Sep-1984 02:16:54 14-Sep-1984 13:21:22 UAFMAIN VO4-000 VAX-11 Bliss-32 V4.0-742 Particular Particul rename\_uaf - rename user record %sbttl 'rename\_uaf - rename user record' global routine rename\_uaf : novalue = begin FUNCTIONAL DESCRIPTION: Effect a user authorization record rename, by performing a COPY and a REMOVE operation. INPUTS: none IMPLICIT INPUTS: none **OUTPUTS:** none IMPLICIT OUTPUTS: none SIDE EFFECTS: A user authorization record is copied with a newname; the original record is then deleted. This routine also causes updating of any NETUAF entries for the local user which is to be renamed. uaf\$gl\_ctlmsk[uaf\$v\_rename] = true; Copy the new authorization record if (copy\_uaf ()) then begin Remove the old authorization record remove\_uaf (); LIB\$SIGNAL(UAF\$\_RENMSG); Because passwords are folded in with the username, passwords for RENAMEd records will no longer work--warn the user if .pwd\_flag
then LIB\$SIGNAL(UAF\$\_DEFPWD); Modify the rights data base if one exists

```
L 16
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                         VAX-11 Bliss-32 V4.0-742 Page B3
DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (14)
                   rename_uaf - rename user record
  if (cli$present ( sd_modify_identifier ) and
                                      .rdb_exists )
                                      begin
                                      local
                                                                   : long, : vector [kgb$s_name, byte],
                                           status
                                           old_name_buff
                                           old_name_desc
                                                                   : statdesc
                                           new_name_desc
                                                                   : statdesc :
                                     old_name_desc[length] = kgb$s_name;
old_name_desc[pointer] = old_name_buff;
new_name_desc[length] = .newuser[en;
                                      new_name_desc[pointer] = newusername
                                      uaf$find uic ():
                                                                   ! Build Identifier from the recbuf
                                        Find the ascii name
                                      status = $idtoasc ( id
                                                                      = .ident,
                                                              namlen = old_name_desc[length],
                                                              nambuf = old_name_desc );
                                      if not .status
                                      then LIB$SIGNAL(UAF$_RDBMDFYERRU, 2,
                                                             .ident[uic$v_group],
.ident[uic$v_member], .status)
                                      else
                                           begin
                                           status = $mod_ident ( id
                                                                                = .ident,
                                                                     new_name = new_name_desc ) ;
                                          if not .status
                                                then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, old_name_desc, .status)
                                               else
                                                    rightslist_modified = true ;
                                                    LIBSSIGNALTUAFS_RDBMDFYMSG, 1, old_name_desc);
                                           end :
                                      end
                                 end:
                               Reset flags
                            rename_ph2 = false;
                            uaf$gl_ctlmsk[uaf$v_rename] = false;
                            end:
```

UAF	MAIN
	-000

rename	uaf	-	rename	USAF	record
I chame	_ ug		ICHOME	4361	I ELUI U

16-Sep-1984 14-Sep-1984	02:16:54	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32	Page	84
14-5ep-1984	13:21:22	DISKOVMSMASTER: [UAF.SRC]UAFMAIN.B32	:1	(14)

FA08 FE96  00000000G  08  08  00000000G	56 00000000° 00 55 00000000° 00 55 00000000	O FB 00024 O E9 00029 O FB 0002C F DD 00031 O FB 00037 CALLS F DD 00037 CALLS F DD 0003A F DD 0003F O FB 00045 O FB 00075 O FB 00076 O FB 00076 O FB 00077 O FB 0004LS O FB 00077 O FB 0007 O	RENAME UAF, Save R2,R3,R4,R5,R6 NEWUSERLEN, R6 IDENT, R5 UAF\$GL CTLMSK, R4 LIB\$SIGNAL, R3 #48, SP #1, UAF\$GL CTLMSK #0, COPY_UAF R0, 2\$ #0, REMOVE UAF #UAF\$ RENMSG #1, LIB\$SIGNAL PWD FLAG, 1\$ #UAF\$ DEFPWD #1, LIB\$SIGNAL SD_MODIFY IDENTIFIER #1, CLI\$PRESENT R0, 3\$ RDB EXISTS, 3\$ #17694720, OLD NAME_DESC OLD NAME DESC+4 #17694720, NEW NAME_DESC NEW NAME DESC+4 N32, OLD NAME_DESC OLD NAME BUFF, OLD NAME_DESC+4 NEW NAME_BUFF, OLD NAME_DESC+4 NEW USERNAME, NEW NAME_DESC+4 NO, UAF\$FIND_UIC -(\$P)	2322 2326 2332 2333 2338 2339 2344 2345 2351 2352 2354 2355 2356 2357 2359 2366
00000000G  7E 02 A5  00000000G	14 A A A A A A A A A A A A A A A A A A A	E D4 0008B E 9F 0008D PUSHAB PUSHAB F 9F 00093 F PUSHL CALLS O D0 0009C E8 0009F DD 000A2 DD 000A2 F DD 000A7 DF 000A7 DD 000AF F DD 000AF F B 000B5 A 11 000B8 3\$: BRB	-(\$P) -(\$P) OLD_NAME_DESC OLD_NAME_DESC IDENT #6, SYS\$IDTOASC R0, STATUS STATUS, 4\$ STATUS IDENT, -(\$P) #0, #14, IDENT+2, -(\$P) #2 #UAF\$ RDBMDFYERRU #5, LIB\$SIGNAL 6\$ -(\$P) NEW NAME_DESC -(\$P) IDENT #5, SYS\$MOD_IDENT R0, STATUS STATUS, 5\$ STATUS OLD_NAME_DESC #1 #UAF\$ RDBMDFYERR #4, LIB\$SIGNAL 6\$ #1, RIGHTSLIST_MODIFIED	2367 2370 2369 2368 2375 2378

UAFMAIN VO4-000	rename_uaf - rename user record	B 1 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[U	4.0-742 AF.SRCJUAFMAIN.B32;1 (14)
	08 000000006 63 08	AE 9F 000E6 01 DD 000E9 8F DD 000EB 03 FB 000F1 A6 94 000F4 6\$: CLRB RENAME PH2 01 8A 000F7 04 000FA  PUSHAB OLD_NAME_DESC PUSHL #1 FUAF\$ RDBMDFYMSG CALLS #3, LIB\$SIGNAL RENAME PH2 BICB2 #1, UAF\$GL_CTLMSK RET	2382 2391 2392 2394

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + OC8C

```
UAFMAIN
VO4-000
                          adjust_proxy - implicitly remove/update proxy r 16-Sep-1984 02:16:54
                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32:1
                                       %sbttl 'adjust_proxy - implicitly remove/update proxy record' global routine adjust_proxy (remove) : novalue = begin
  144
                                          FUNCTIONAL DESCRIPTION:
                                                    This routine performs the operations implicitly indicated by REMOVE or RENAME operations on SYSUAF.DAT. If a SYSUAF.DAT record is removed, then any corresponding NETUAF.DAT entries must also be deleted. If a SYSUAF.DAT record is renamed, then any corresponding NETUAF.DAT entries must be updated.
                                           INPUTS:
                                                                   a flag which indicates that the NETUAF.DAT record should be removed. If false, then the record
                                                                   should be updated.
                                          OUTPUTS:
                                                    none
                                          IMPLICIT INPUTS:
                                                    olduserlen - the old username length for a RENAME oldusername - the old username string for a RENAME TOKENPTR - the new username for RENAME, the removed username for REMOVE TOKENLEN -
                                                     TOKENLEN -
                                          IMPLICIT OUTPUTS:
                                                    none
                                          SIDE EFFECTS:
                                                      A record is removed/updated in NETUAF.DAT
                                       -
                                       local
                                                    modified: initial(false),
                                                    status:
                                          Set access to sequential because we need to check for
                                          multiple entries
                                       nafrab[rab$l_rop] = rab$m_rlk;
nafrab[rab$b_rac] = rab$c_seq;
                                                                                                         ! Lock records for writing
                                       $rewind (rab = nafrab);
                                          Until EOF ...
                                       while status = get_proxy_record ()
```

VC

```
UAFMAIN
VO4-000
                                                                                 VAX-11 Bliss-32 V4.0-742 Page 87 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (15)
              adjust_proxy - implicitly remove/update proxy r 14-Sep-1984 02:16:54
              begin
 locuser_len.
                             blank_ptr:
                        Find end of user name...
                        If not found in 12 characters, it must be the full 12
                        characters in length
                         locuser_len = naf$s_localuser
                             locuser_len = .blank_ptr - netbuf[naf$t_localuser];
                       If this is a record to be removed, delete it
                          if .remove
                          then
                             begin
                             if tokenlen eql .locuser_len
and ch$eql (.tokenlen, .tokenptr, .locuser_len, netbuf[naf$t_localuser])
                             then
                                 begin
                                 netuaf_modified = true;
$delete (rab = nafrab);
                                 security_audit (nsa$k_recid_netuaf_del);
                             end
                       otherwise, change the localusername field to reflect the
                       new username in SYSUAF.DAT
                             begin
modified = true;
                             then
                                 begin
                                 end;
                             end;
                          end:
                         .modified then
```

50

00

69

FA40

BNEQ

CMPC5

MOVC3

R1, OLDUSERNAME, #0, LOCUSER\_LEN, NETBUF+64

#32, RECBUF+4, NETBUF+64

U V

2496

UAFRAIN VO4-000	adjust_proxy - implici	itly r	remove/upd	ate	pro	ky r 1	Sep- Sep-	1984 02:16 1984 13:21	:54	VAX-11 BLiss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN	.B32;1 (15)
	0000000G f 4	A9	68 00030003	A81005800569	9FB0000FB19000	000A5 000AF 000B5 000B5 000BE 000C0 000C5	88:	PUSHAB CALLS MOVL PUSHL PUSHL CALLS BRB BLBC PUSHL PUSHL PUSHL PUSHL CALLS	R9	S\$UPDATE TUAF_MODIFIED 1 CURITY_AUDIT ED, 9\$	2501 2502 2503 2451 2508 2508
	00000000G 0086	00	000000006	02 8f 04 01	DD FB 90	000C8 000CA 000D0 000D7 000DC	98:	PUSHL PUSHL CALLS MOVB RET	WUAF\$	ZZPRACREN B\$SIGNAL FRAB+30	2514 2515

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 0D87

.

```
UAFMAIN
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                        default_uaf - change default record
                                    %sbttl 'default_uaf - change default record' global routine default_uaf : novalue =
                                    begin
                                      FUNCTIONAL DESCRIPTION:
                                                Change a default value in the default record.
                                       INPUTS:
                                                none
                                       IMPLICIT INPUTS:
                                                none
                                       OUTPUTS:
                                                none
                                       IMPLICIT OUTPUTS:
                                                none
                                       ROUTINE VALUE:
                                               none
                                      SIDE EFFECTS:
                                                none
                                       Locate default record and load it into RECBUF if not already there (via an indirect MODIFY DEFAULT)
                                    if not .mod_default
                                    then
                                          if not locate_user (.defuser<0,8>, defuser+1, true)
                                          then
                                               begin
LIB$SIGNAL(UAF$_DEFERR, 0, .rmserr);
                                                return;
                                                end:
                                          end:
                                       The encrypted password field of the DEFAULT record can not be propagated to another user, because the encryption algorithm takes the user name as an input. The user is merely warned that this qualifier has no effect.
```

```
UAFMAIN
                                                                                  16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
V04-000
                    default_uaf - change default record
  pwd_flag = true;
                    Update values supplied and exit if errors.
                               if update_record ()
                               then
                                    begin
                                    if not .pwd_flag
then LIBSSIGNAL(UAF$_NODEFPWD);
                                 Now write the modified record back into the DEFAULT_RECORD buffer.
                                    default_size = .uafrab[rab$w_rsz];
                                    ch$move (.default_size, recbuf, default_record);
                                 Update the default record in the file. Note that file has changed.
                                    if not rmsok (Supdate (rab = uafrab))
                                         LIB$SIGNAL(UAF$_MDFYERR, 0, .rmserr)
                                    else
                                         begin
modify_flag = true;
security_audit (nsa$k_recid_sysuaf_mod);
if not .mod_default
                                              LIB$SIGNAL (UAF$_MDFYMSG)
                                         else
                                              mod_default = false:
                                         end:
                                    end
                                    Srelease (rab = uafrab);
                                                                                             ! unlock the record
                              end:
                                                                                                         DEFAULT UAF, Save R2,R3,R4,R5,R6,R7,R8
LIB$SIGNAL, R8
MOD DEFAULT, R7
RMSERR, R6
MOD_DEFAULT, 18
                                                                      9E
9E
9E
9E
9F
9F
9F
9A
FB
EB
                                                                                                                                                                     2517
                                                                                                ENTRY
                                                      000000000
                                                                    00007100306E
                                                                                                MOVAB
                                                                                                MOVAB
                                                                                                MOVAB
                                                                                               BLBS
                                                                                                                                                                     2557
2560
                                                                                                PUSHL
                                                      000000000
                                                                                                PUSHAB
                                                                                                         DEFUSER+1
                                                                                                         DEFUSER, -(SP)
#3, LOCATE_USER
R0, 1$
                                                                                                MOVZBL
                                                                                                CALLS
BLBS
                                    V0000000V
                                                                                                PUSHL
                                                                                                                                                                     2563
                                                                                                          RMSERR
                                                                                                          -(SP)
                                                                                               CLRL
```

UAFMAIN V04-000	default_ua	f - change d	default record		16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 9: 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32:1 (16:54)						
	045C C	000000006 7 0458 000000006	000000006  C6 00 5E 09 000000006  68 C7 A6 0458 05F0  00	840006F1676100	DD 00037 11 0003D D0 0003F FB 00044 E9 0004B E8 0004E DD 00053 FB 00059 B0 00050 28 00063 9F 00060 FB 00077	1\$: 2\$:	PUSHL BRB MOVL CALLS BLBS PUSHL CALLS MOVC3 PUSHAB CALLS MOVL BLBS PUSHL CLRL PUSHL CALLS RET	WUAFS_DEFERR  3\$  #1, PWD_FLAG  #0, UPDATE_RECORD  R0, 6\$  PWD_FLAG, 2\$  #UAFS_NODEFPWD  #1, LIB\$SIGNAL  UAFRAB+34, DEFAULT_SIZE  DEFAULT_SIZE, RECBUF, DEFAULT_RECORD  UAFRAB  #1, SYS\$UPDATE  R0, RMSERR  R0, 4\$  RMSERR  -(SP)	2573 2579 2582 2583 2588 2589 2594		
			000000006 68	66 7E 8F 03	DD 0007D D4 0007F DD 00081 FB 00087	38:	PUSHL CLRL PUSHL CALLS	RMSERR -(SP) #UAF\$ MDFYERR #3, LIB\$SIGNAL	2596		
		04 00000000v	A7 00030002	01 8F	04 0008A 00 0008B DD 0008F FB 00095	48:	MOVL	#1 MODIFY_FLAG	2599 2600		
		00000000	00 0A 000000006	01 8F 01 67 8F 01	E8 0009C DD 0009F FB 000A5		MOVL PUSHL CALLS BLBS PUSHL CALLS RET	#1 MODIFY_FLAG #196610 #1 SECURITY_AUDIT MOD_DEFAULT, 5\$ #UAF\$_MDFYMSG #1, LIB\$SIGNAL	2601 2603		
			05F0	67	04 000A8 04 000A9 04 000AB 9F 000AC	*	CLRL RET PUSHAB	MOD_DEFAULT UAFRAB	2605 2579 2610		
		000000006	00	01	9F 000AC FB 000B0 04 000B7		CALLS	#1, SYS\$RELEASE	2612		

Routine Base: \$CODE\$ + 0E64

; Routine Size: 184 bytes,

```
UAFMAIN
VO4-000
                                                                                          16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                            VAX-11 Bliss-32 V4.0-742 Page 93 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (17)
                      list_proxy - list proxy entries in NETUAF.LIS
                                 %sbttl 'list_proxy - list proxy entries in NETUAF.LIS' global routine list_proxy : novalue =
  begin
                                  !++
                                    FUNCTIONAL DESCRIPTION:
                                             This routine produces a listing of the entire NETUAF.DAT file in NETUAF.LIS.
                                     INPUTS:
                                             none
                                    OUTPUTS:
                                             none
                                    SIDE EFFECTS:
                                             A listing file is produced
                                 local
                                            action:
                                    Make sure NETUAF, DAT exists
                                 if not .netuaf_exists then return LIB$SIGNAL(UAF$_NAFDNE);
                                    Set up the listing file FAB and connect RAB
                                 nlstfab[fab$v_dlt] = false;
if rmsbad ($create (fab = nlstfab))
then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
                                 if rmsbad ($connect (rab = nlstrab))
then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
                                    Set action routine and rab pointer
                                  wild_netuser = true;
                                 match_tokenlen = 1;
match_token = %c'*;
rabptr = nistrab;
                                  action = display_proxy;
                                 header_flag = true;
nafrab[rab$l_rop] = rab$m_rrl or rab$m_nlk;
                                 LIB$SIGNAL (UAF$_LSTMSG1);
```

```
K 1
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                            list_proxy - list proxy entries in NETUAF.LIS
                                                                                                                                                                                                                             (17)
   LOCATE_PROXY will call the action routine for each proxy record
                                         if rmsbad (locate_proxy (.action))
                                         then
                                                begin
if .nmserr eql rms$_rnf
                                                       LIB$SIGNAL (UAF$_BADSPC)
                                                       LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
                                                LIB$SIGNAL (UAF$_NETLSTMSG);
                                             Disconnect RAB and close FAB
                                         $disconnect (rab = nlstrab);
                                         $close (fab = nlstfab);
                                         end:
                                                                                                                                .EXTRN
                                                                                                                                              SYS$DISCONNECT, SYS$CLOSE
                                                                                                      00000
00002
00009
00010
00017
0001E
00022
00028
00028
0002C
00031
00034
0003B
0003B
                                                                                                                                             LIST PROXY, Save R2,R3,R4,R5,R6
**MUAF$ LSTERR, R6
LIB$SIGNAL, R5
NLSTRAB, R4
RMSERR, R3
NETUAF EXISTS, 18
**MUAF$ NAFDNE
**1, LIB$SIGNAL
                                                                                               007C
00
9E
9E
9E
E8
                                                                                                                                 .ENTRY
                                                                                                                                                                                                                              2614
                                                                        MOVL
                                                                                           8F
00
00
00
A3
                                                                   55543
0A
                                                                                                                                MOVAB
                                                                                                                                MOVAB
                                                                                                                                BLBS
                                                                                                                                                                                                                              2644
                                                                        0000000G
                                                                                           8F
                                                                                                                                PUSHL
                                                                                                                                CALLS
                                                                                                                                RET
                                                                                                                                BICB2
                                                                                                                                              #128, NLSTFAB+5
NLSTFAB
                                                                                                                                                                                                                              2650
2651
                                                          85
                                                                                           A100550556750
                                                                                                                                PUSHAB
                                                                   00
63
0F
                                                                                                  f B
                                                                                                                                                    SYSSCREATE
RMSERR
                                                00000000G
                                                                                                                                CALLS
                                                                                                                                MOVL
                                                                                                                                              RO.
                                                                                                       0003E
00041
00043
0004A
0004D
00050
00052
00054
00056
00058
0005E
00062
00064
00064
00071
                                                                                                                                BLBC
                                                                                                   DD
                                                                                                                                PUSHL
                                                                                                                                                                                                                              2654
                                                                   00
63
0A
                                                                                                                                CALLS
                                                0000000G
                                                                                                                                                     SYS$CONNECT
                                                                                                                                MOVL
                                                                                                                                                    RMSERR
38
                                                                                                                                              RO,
                                                                                                                                PUSHL
                                                                                                                                              RMSERR
                                                                                                                                                                                                                             2655
                                                                                                                                CLRL
                                                                                                                                              -(SP)
                                                                                                  00
FB
04
                                                                                                                                             R6
#3, LIB$SIGNAL
                                                                                                                                PUSHL
                                                                                                                                CALLS
                                                                   65
                                                                                                                                             #1, WILD NETUSER
#1, MATCH TOKENLEN
#42, MATCH TOKEN
NLSTRAB, RABPTR
DISPLAY PROXY, ACTION
#1, HEADER FLAG
#1048584, NAFRAB+4
                                                                                                                                                                                                                              2660
2661
2662
2663
2664
2665
2666
                                                          E0
DC
98
80
                                                                                           01
01
01
04
600
01
                                                                                                  D000990
                                                                                                                                MOVL
```

00100008

DÖ

MOVL MOVL MOVAB MOVAB

MOVL

MOVL

UAFMAIN V04-000	list_proxy	- list prox	cy e	ntries in N	ETUAF	.LI	is 1	-Sep-	1984 02:16 1984 13:21	1:54 VAX-11 1:22 DISK\$V	Bliss-32 v4.0-742 MSMASTER: [UAF.SRC]UAFMAIN	.832;1 (17
			65	0000000G	8F 01	DD FB	0007F 00085		PUSHL	#UAF\$ LSTMSG #1, LTB\$SIGN ACTION	1 AL	266
		00000000v	00 63		52 50 50	FBO FBO FBO	00088 0008A 00091 00094		PUSHL CALLS PUSHL CALLS MOVL BLBS MOVL CMPL BNEQ PUSHL BRB	WT. LOCATE P	ROXY	267
		000182B2	50 8F		65 08 8F	E8 D0 D1	00097 0009A		MOVL	RO, RMSERR RO, 5\$ RMSERR, RO RO, #98994		267
				00000000G	8F	DD 11	000A3		PUSHL BRB	#UAF\$_BADSPC		267
					50 7E 56	DD 04 DD	000AB	45:	PUSHL CLRL PUSHL CALLS BRB	6\$ RO -(SP)		268
			65	000000006	03 09 8F 01	FB 11 DD FB DD	000AF 000B1 000B4 000B6 000BC	51: 65: 75:	CALLS BRB PUSHL CALLS PUSHL CALLS PUSHAB	R6 #3, LIB\$SIGN 7\$ #UAF\$ NETLST #1, LIB\$SIGN		267 268
		000000006	00	во	01	FB 9F	000BF 000C1 000C8	75:	PUSHL	R4		268
		000000006	00	80	01	FB 04	000CB 000D2		CALLS	#1 SYS\$DISC NLSTFAB #1, SYS\$CLOS	E	268 <sup>9</sup>

```
M 1
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                VAX-11 Bliss-32 V4.0-742 Page 96 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (18)
                    list_uaf - list file routine
                              %sbttl 'list_uaf - list file routine' global routine list_uaf : novalue =
  begin
                              1++
                                 FUNCTIONAL DESCRIPTION:
                                         Display the specified users in a file named 'SYSUAF.LIS'.
                                 INPUTS:
                                         none
                                 IMPLICIT INPUTS:
                                        none
                                 OUTPUTS:
                                         none
                                 IMPLICIT OUTPUTS:
                                         none
                                 ROUTINE VALUE:
                                         none
                                 SIDE EFFECTS:
                                         none
                              Local
                                         action:
                                 Obtain the user specification. This sets wildcard flags and initializes the appropriate key in RECBUF.
                                                                                            ! Null string defaults to *
                               if not parse_wild (sd_token1, true)
                               then return;
                                 Obtain qualifiers. This determines which display should be used.
                              full flag = false;
brief_flag = true;
                               if clispresent (sd_full) or (not clispresent (sd_brief))
                               then
                                   begin
brief_flag = false;
full_Tlag = true;
```

```
UAFMAIN
VO4-000
                                                                         16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                    VAX-11 Bliss-32 V4.0-742 Page 97 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (18)
                  list_uaf - list file routine
 end:
                             Create the listing file.
                  ! initialize DLT bit
                           if rmsbad ($connect (rab = lstrab))
then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
                             Request a header record for the file and aim RABPTR at our RAB.
                           header_flag = true;
rabptr = lstrab;
                           found_match = false:
                           uafrab[rab$1_rop] = rab$m_rrl or rab$m_nlk;
                             flag the list operation for the rights data base routines .
                           rdb_list_flag = true ;
                             Choose the appropriate display.
                           action = display_brief;
if .full_flag
                           then action = display_full:
                           LIB$SIGNAL(UAF$_LSTMSG1);
                                                                                  ! announce starting
                           if rmsbad (wild_user (.action))
                           then
                               begin
if .rmserr eql rms%_rnf
                                    LIB$SIGNAL (UAF$_BADSPC)
                               LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
lstfab[fab$v_dlt] = true; ! pre
                                                                         ! press delete button
                               LIB$SIGNAL (UAF$_LSTMSG2);
                           $disconnect (rab = lstrab);
                           Sclose (fab = lstfab);
```

cist lite i	out	1116			19	4-26b-1	704 13:21		(18)
	5555555	00000000° 00000000° 00000000° 00000000° 000000	8F 000 000 000 01	9E 00 9E 00 9E 00 9E 00	0000 0002 0009 0010 0017 001E 0025		ENTRY MOVL MOVAB MOVAB MOVAB MOVAB MUVAB PUSHL	LIST UAF, Save R2,R3,R4,R5,R6,R7,R8 #UAF\$ LSTERR, R8 CLISPRESENT, R7 SD TOKEN1, R6 LIB\$SIGNAL, R5 RMSERR, R4 LSTRAB, R3	2693
000000006	00		56 02 50	DD 0 FB 0 E8 0	002E 0030 0037 003A		PUSHL CALLS BLBS	RÓ #2. PARSE_WILD RO, 1\$	
FE08	67 09 67 09	20	01 A6 01 50 A6	7D 00 9F 00 FB 00 FB 00	003B 0040 0043 0046 0049	18:	RET MOVQ PUSHAB CALLS BLBS PUSHAB CALLS	#1. BRIEF_FLAG SD_FULL #1. CLI\$PRESENT R0. 2\$ SD_BRIEF #1. CLI\$PRESENT	2742 2744
		FE08	01 50 C3	D4 0	004F 0052	2\$:	CALLS BLBS CLRL	#1, CLISPRESENT RO. 38 BRIEF FLAG	2747
FEOC B5	C3	80	01 8F	00 00	0056 0058	3\$:	MOVL BICB2 PUSHAB	#1. FULL FLAG	2748
000000006	00 64 0F	BÖ	A3 01 50 50	FR O	0060 0063 006A 006D 0070		PUSHAB CALLS MOVL BLBC PUSHL	#128, LSTFAB+5 LSTFAB #1, SYS\$CREATE RO, RMSERR RO, 4\$	2755 2756
000000006	00 64 0A		53 01 50 50 64 78 03	FB 00 D0 00 E8 00 D0 00 D4 00 DD 00	0070 0072 0079 0076 0076 0081 0083 0085	48:	MOVL BLBS PUSHL CLRL PUSHL CALLS	R3 W1, SYS\$CONNECT R0, RMSERR R0, 5\$ RMSERR -(SP) R8 W3, LIB\$SIGNAL	2759
FE10 80	C3 A4	04.69	01	9E 0	0089 008E	5\$:	RET MOVL MOVAB	#1 HEADED ELAC	2766 2767
05F4 00000000G	65 65	00100008 000000000v FEOC 00000000v 000000000	8F 003 008 01	90 00 9E 00 E9 00	0092 0096 0096 00A6 00AD 00B2 00B9 00BF	68:	CLRL MOVL MOVB MOVAB BLBC MOVAB PUSHL CALLS	LSTRAB, RABPTR FOUND MATCH #1048584, UAFRAB+4 #1, RDB_LIST_FLAG DISPLAY_BRIEF, ACTION FULL_FLAG, 68 DISPEAY_FULL, ACTION #UAF\$ LSTMSG1 #1, LIB\$SIGNAL	2767 2768 2769 2773 2779 2780 2781 2783
00000000v	00 64 27 50 8F		50 50		00C2 00CB 00CE 00D1		PUSHL CALLS MOVL BLBS MOVL	W1, LTB\$SIGNAL ACTION W1, WILD USER RO, RMSERR RO, 9\$ RMSERR, RO RO, #98994 75	2785
000182B2	50 8F		64 50 0B	12 0	00D4 00DB		BNEO	RMSERR, RO RO, #98994 7\$	2788
	65	000000006	0B 8F 01 09	DD O	OODD		PUSHL CALLS BRB	#1, LIBSSIGNAL	2790
			50 7E	DD 00	00E8 00E8 00EA	78:	PUSHL	RO -(SP)	2792

VO

00000000G 00 01 FB 000FE CALLS #1, LIB\$SIGNAL 00000000G 00 01 FB 00103 CALLS #1, SYS\$DISCONNECT 00000000G 00 01 FB 0010A PUSHAB LSTFAB 0000000G 00 01 FB 0010D CALLS #1, SYS\$CLOSE	UAFMAIN V04-000	list_uef -	list_uaf - list file routine						2 5-Sep- 4-Sep-	1984 02:16 1984 13:21	:54	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (1	
			00000000G	00	0000000G	8F 01 53	DF881DBBDBF984	000EC 000EE 000F1 000F6 000F8 000FE 00101 00103 0010A 0010D	98:	LALLS	#128 10\$ #UAF: #1	\$ LSTMSG2 LTB\$SIGNAL SYS\$DISCONNECT	279 278 279 279 279

```
D 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                            VAX-11 Bliss-32 V4.0-742 Page 100 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (19)
                   show_user_uaf - display user record
                             %sbttl 'show_user_uaf - display user record' global routine show_user_uaf : novalue = begin
 FUNCTIONAL DESCRIPTION:
                                       Display the specified users on SYS$OUTPUT.
                               INPUTS:
                                       none
                                IMPLICIT INPUTS:
                                       none
                               OUTPUTS:
                                       none
                               IMPLICIT OUTPUTS:
                                       none
                               ROUTINE VALUE:
                                       none
                               SIDE EFFECTS:
                                       none
                             local
                                       action:
                               Obtain the user specification. This sets wildcard flags and initializes
                                the appropriate key in RECBUF.
                             if not parse_wild (sd_token1, false)
                                                                                        ! Null string is disallowed.
                             then return;
                               Obtain qualifiers. This determines which display should be used.
                             full_flag = true;
brief_flag = false;
                             if clispresent (sd_brief) or (not clispresent (sd_full))
                                  begin
brief flag = true;
full_Tlag = false;
```

VO

```
E 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page 101 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (19)
                     show_user_uaf - display user record
                                     end;
                                   Request a header record for the file and aim RABPTR at our RAB.
                               header_flag = true;
rabptr = outrab;
found match = false;
uafrab[rab$i_rop] = rab$m_rrl or rab$m_nlk;
                                  Flag the show operation for the rights data base routines .
                                rdb_list_flag = false ;
                                  Choose the appropriate display.
                                action = display_full;
if .brief_flag
then action = display_brief;
                                if rmsbad (wild_user (.action))
                                then
                                     begin
                                      if .rmserr eql rms$_rnf
                                          LIB$SIGNAL (UAF$_BADSPC)
                                          LIB$SIGNAL(UAF$_SHOW_ERR, 0, .rmserr);
                                     end:
```

	56 00000000G	007C 000	BAVOM SO	SHOW USER UAF, Save R2,R3,R4,R5,R6 LIB\$SIGNAC, R6	2802
	54 000000000	00 9E 000 00 9E 000 00 9E 000 00 9E 000	100 MOVAB	CLISPRESENT, R5 SD_TOKEN1, R4	
	52 000000000	00 9E 000 00 9E 000 00 9E 000 00 9E 000 7E D4 000	117 MOVAB 11E MOVAB 125 CLRL	BRTEF FLAG, R3 RMSERR, R2 -(SP)	2844
000000006	00	54 DD 000 02 FB 000	25 CLRL 27 PUSHL 29 CALLS	R4 W2. PARSE_WILD	
04	78 A3	50 E9 000 01 00 000	29 CALLS 30 BLBC 33 MOVL	#1. FULL FLAG BRIEF_FLAG	2850
	20	63 D4 000 A4 9F 000 01 FB 000	37 CLRL 39 PUSHAB	SD BRTEF	2853
	65	50 E8 000	3C CALLS 3F BLBS 42 PUSHAB	W17 CLISPRESENT RO, 18	
	65 03	01 FB 000 50 EB 000	45 CALLS BLBS	#1, CLISPRESENT RO. 28	

UA

VO

	ge 102 (19)
RIEF FLAG EADER FLAG B, RABPTR MATCH 584, UAFRAB+4 IST FLAG AY FULL, ACTION FLAG, 38 KY_BRIEF, ACTION NILD USER MSERR B R R0 98994	2856 2864 2865 2866 2867 2872 2878 2879 2880 2882
BADSPC IB\$SIGNAL	2887
CHOIL EDD	2889
SHOW ERR IB\$SIGNAL	2891

; Routine Size: 175 bytes. Routine Base: \$CODE\$ + 1104

show\_user\_uaf - display user record

80

05F4

00000000V

000182B2

63 A3 A2

0684 0668 000000006 0000000006 50 000000000

50 00000000v 50 00000000v

00000000G

00000000G

16-Sep-1984 02:16:54 14-Sep-1984 13:21:22

MOVE

MOVL CLRB

BAVOM BLBC

PUSHL

MOVL BLBS

MOVL

CMPL

BNEQ

PUSHL

CALLS RET

PUSHL

CLRL

PUSHL CALLS

RET

MOVAB CLRL

0004B 1\$: 0004E 2\$: 00052 00058 0005C 00065 0006B 00075 0007C 0007C 0007E 00085 00088

0008B 0008E

00095

0009D 000A0 000A1 000A3 000A5 000AB

000AE 55:

7090046960

D1 12 DD

FB 04

DD

001122F00030010020AF1

50 7E 8F 03

#1, BRIEF FLAG
#1, HEADER FLAG
OUTRAB, RABPTR
FOUND MATCH
#1048584, UAFRAB+4
RDB LIST FLAG
DISPLAY FULL, ACTION
BRIEF FEAG, 38
DISPLAY BRIEF, ACTION
ACTION

M1, WILD USER RO, RMSERR RO, 5\$ RMSERR, RO RO, #98994 4\$

WUAFS BADSPC #1, LIBSSIGNAL

WUAFS SHOW ERR

-(SP)

UAFMAIN VO4-000

VO

```
UAFMAIN
VO4-000
                                                                                     16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page 103 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (20)
                     show_proxy - display proxy record at terminal
                                %sbttl 'show_proxy - display proxy record at terminal' global routine show_proxy : novalue =
                     begin
                                1++
                                  FUNCTIONAL DESCRIPTION:
                                          This routine will display a specific proxy record or will display all proxy entries to the user terminal.
                                   INPUTS:
                                          none
                                  OUTPUTS:
                                          none
                                  IMPLICIT INPUTS:
                                          TOKENLEN, TOKENPTR
                                   IMPLICIT OUTPUTS:
                                          none
                                  SIDE EFFECTS:
                                          none
                                local
                                          node_len,
                                          node_ptr
remuser_len,
                                          remuser_ptr,
                                          action.
                                          counter,
                                          success;
                                  Make sure that NETUAF.DAT exists
                                if not .netuaf_exists
then return LIB$SIGNAL(UAF$_NAFDNE);
                                  Retrieve token
                                cli$get_value (sd_token1, tokendsc);
                                header_flag = true;
                                  Wildcard spec?
```

UA

VO

```
VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (20)
```

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
show_proxy - display proxy record at terminal
if ch$find_ch (.tokenlen, .tokenptr, %c'%') neq 0 or ch$find_ch (.tokenlen, .tokenptr, %c'*') neq 0
         then
              begin
wild_netuser = true;
              match_tokenlen = .tokenlen;
              ch$move (.tokenlen, .tokenptr, match_token);
           Otherwise, just display a single entry
         else
              begin
              wild_netuser = false;
              if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
              then return:
              ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
              ch$copy (.remuser_len, .remuser_ptr, ',
naf$s_remuser, netbuf[naf$t_remuser]);
              end:
           Set up action routine and rab pointer
         rabptr = outrab;
action = display proxy;
found_match = false;
         nafrab[rab$l_rop] = rab$m_rrl or rab$m_nlk;
           Make call (s) necessary to display the rquested entry or entries
         if rmsbad (locate_proxy (.action))
         then
              begin
              if .rmserr eql rms$_rnf
                  LIB$SIGNAL (UAF$ BADSPC)
                  LIB$SIGNAL(UAF$_SHOW_ERR, 0, ,rmserr);
```

UAFMAIN VO4-000

2877567890123456

```
00000
00002
00009
00010
00013
00017
00010
                                                                 SHOW PROXY, Save R2,R3,R4,R5,R6,R7
LIB$51GNAL, R7
TOKENDSC, R6
                                                                                                                                              2893
                     OOFC
                                                     .ENTRY
              00
00
10
A6
8F
00AA
56
000000000
                                                     MOVAB
                        90000
                                                     MOVAB
                                                     SUBL 2
                                                                  #16, SP
NETUAF_EXISTS, 18
                                                                                                                                              2937
2938
000000006
                                                     BLBS
                                                                  WUAFS NAFDNE
                                                     PUSHL
                                                     BRW
                                                     PUSHL
                                                                  R6
                                                                                                                                               2943
```

VC

.

JAFMAIN 104-000		show_pro	xy ·	- display p	prox	y record at	ter	minal	16-Sep-	1984 13:21	5:54 VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1	age (
				00000000G	00	00000000	00	9F 000	22 28	PUSHAB	SD_TOKEN1 #2. CLISGET_VALUE #1, HEADER_FLAG	:
			63		525	04	66652	3C 000 D0 000 3A 000 12 000	36 39 30 41	PUSHAB CALLS MOVL MOVL MOVL LOCC BNEQ CLRL TSTL	TOKENLEN, RZ TOKENPTR, R3 M37, R2, (R3)	2
			63		52		51 0CA 02A	D4 000 D5 000 12 000 3A 000	45 2 <b>\$</b> : 47 49 40	TSTL BNEQ LOCC BNEQ CLRL TSTL BEQL MOVL	R1 R1 4\$ #42, R2, (R3) 3\$	2
							51 51 0F	04 000 05 000 13 000	4F 51 38:	CLRL TSTL BEQL	R1 R1 5\$	•
		<b>B</b> 0	A6	F8 F4	A6 63		01 52 52	DO 000 DO 000 28 000 11 000	55 4 <b>\$</b> : 59 50 62	MOVE	#1, WILD NETUSER R2, MATCH_TOKENLEN R2, (R3), MATCH_TOKEN	55555
20						F 8 08 10 18	55245EEEE405AC6CC0C85	04 000 00 000 9F 000 9F 000	64 5 <b>\$</b> : 67 69	BRB CLRL PUSHL PUSHAB PUSHAB PUSHAB CALLS BLBC MOVC5	WILD_NETUSER	2
				F412	CF 61	18	AE 04	9F 000	6F 72	PUSHAB CALLS	REMUSER PTR NODE_LEN NODE PTR #4, REMOTE_PARSE RO, 9\$	
			20	OC	BE	08 05A4	AE C6	E9 000 20 000	7A	MOVC5	NUDE_LEN, aNUDE_PTR, #32, #32, NETBUF	2
2	20		20	04	BE		6E C6	20 000	84 8A	MOVC5	REMUSER_LEN, @REMUSER_PTR, #32, #32, - NETBUF+32	2
				98	A6 50 C6	05C4 069C 00000000V 06E0 00100008	00 06 8F	9E 000 9E 000 D4 000 D0 000 DD 000	QA	MOVAB MOVAB CLRL MOVL	REMUSER LEN, DREMUSER_PTR, #32, #32, - NETBUF+32 OUTRAB, RABPTR DISPLAY PROXY, ACTION FOUND MATCH #1048584, NAFRAB+4	5555
				00000000v 18	00		50 01 50 50	DO 000 DD 000 FB 000 DO 000 E8 000	A7 A9 B0 R4	PUSHL CALLS MOVL BLBS	#1. LOCATE PROXY	5
				000182B2	A6 24 50 8F	18	A6 50 0A	DO 000 D1 000 12 000	B7 BB	MOVL	RO, RMSERR RO, 9\$ RMSERR, RO RO, #98994 8\$	2
					67	000000006	8f 01	00 000	C.L.	MOVL CMPL BNEQ PUSHL CALLS RE1	WUAFS BADSPC W1, LIBSSIGNAL	2
					67	000000006	50 7E 8f 03	DD 000 DD 000 EB 000	7\$: CD CE 8\$: DO D2 D8 D8 9\$:	PUSHL CLRL PUSHL CALLS	RO -(SP) WUAF\$ SHOW ERR W3, LIB\$SIGNAL	2
					31		03	FB 000	DB 98:	RET	-3, FIGGIORE	: 20

; Routine Size: 220 bytes, Routine Base: \$CODE\$ + 1183

```
UAFMAIN
VO4-000
                                                                                        16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                         VAX-11 Bliss-32 V4.0-742 Page 106 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (21)
                      locate_proxy - access given proxy record (s)
                                %sbttl 'locate_proxy - access given proxy record (s)'
routine locate_proxy (action) =
  29190123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890677734
                      begin
                                144
                                   FUNCTIONAL DESCRIPTION:
                                           This routine will call a requested action routine a number of times.
                                   INPUTS:
                                           ACTION - the action routine to call for each NEUAF record
                                   OUTPUTS:
                                           none
                                   SIDE EFFECTS:
                                           none
                                local
                                           status:
                                   If wild user, set acces to sequential and fetch all records
                      if .wild_netuser
                                then
                                      begin
                                      nafrab[rab$b_rac] = rab$c_seq;
$rewind (rab = nafrab);
                                      end:
                                status = get_proxy_record ();
                                   fetch record and call action routine until EOF
                                if .status
then (.action) ();
                                if .wild_netuser
                                then
                                      while status = get_proxy_record () do (.action) ();
                                       if .status eql rms$_eof
                                      then status = true;
                                      end:
                                   Restore keyed access
```

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VC

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VAX-11 Bliss-32 V4.0-742 Page 107 DISK\$VMSMASTER: EUAF.SRCJUAFMAIN.B32;1 (21)

			001	c 00000	LOCATE	PROXY:	Save B3 BT B/	2004
	54 00000 53 00000 0F	0672	00 9 00 9 63 E C3 9	E 00002 E 00009 9 00010 4 00013		WORD MOVAB MOVAB BLBC CLRB	Save R2,R3,R4 GET_PROXY_RECORD, R4 WILD_NETUSER, R3 WILD_NETUSER, 1\$ NAFRAB+30	3023 3026 3027
0000000G	00	0654	C3 9	B 0001B		PUSHAB	NAFRAB #1. SYS\$REWIND #0. GET_PROXY_RECORD	
	64 52		00 F 50 D 52 E	B 00022 0 00025		CALLS CALLS MOVL	MAI CTATUS	3030
04	04 BC		52 E	9 00028 B 0002B		CALLS	STATUS, 28 #0. aaction	3035 3036 3038
	1B 64 52 06		00 F 50 D 52 E 63 F 50 D 50 D 50 D 50 F	9 0002F B 00032 0 00035	28: 38:	BLBC CALLS MOVL	STATUS, 2\$ #0, aaction WILD_NETUSER, 5\$ #0, GET_PROXY_RECORD R0, STATUS STATUS, 4\$ #0, aaction	3038 3041
04	BC		00 F	B 0003B		BLBC	#0, aaction	3042
0001827A	8F		52 D 03 1	1 0003F 1 00041 2 00048	45:	BRB CMPL BNEQ	STATUS, #98938	3043
0672	52 C3 12 OD	06E8	01 D 01 9 63 E C3 E	0 0004A	5\$:	MOVL MOVB BLBC BLBS	#1, STATUS #1, NAFRAB+30 WILD NETUSER, 68 FOUND MATCH, 68 #UAF\$ BADSPC #1, LIB\$SIGNAL STATUS, RO	3044 3050 3052
00000000	00000	0000G	8F D	0005A		PUSHL	WUAF \$ BADSPC	3053
0000000G	50		01 F 52 D	0 00067		CALLS MOVL RET	STATUS, RO	3056

; Routine Size: 107 bytes, Routine Base: \$CODE\$ + 128F

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```
UAFMAIN
VO4-000
                                                                                     18-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page 108 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (22)
                     get_proxy_record - read single proxy record
                                %sbttl 'get_proxy_record - read single proxy record'
routine get_proxy_record =
  begin
                                !++
                                  FUNCTIONAL DESCRIPTION:
                                          This routine accesses a specific NETUAF.DAT record
                                  INPUTS:
                                          none
                                  OUTPUTS:
                                          none
                                  SIDE EFFECTS:
                                          none
                                Local
                                          counter.
                                          success;
                                counter = retry_rlk;
                                while ((success = $get (rab = nafrab)) eqt rms$_rlk)
                                        and ((counter = .counter - 1) geq 0)
                                    if $schdwk (daytim = wakedelta) then $hiber;
                                . Success
                                end:
                                                                                                   .EXTRN
                                                                                                            SYSSGET, SYSSSCHDWK
SYSSHIBER
                                                                         000C 00000 GET_PROXY_RECORD:
                                                                                                                                                                          3058
3085
3087
                                                                                                             Save R2,R3
                                                                               00002
00005
00008
00012
00015
00016
00020
00022
00024
0002A
                                                                                                             MB. COUNTER
                                                                                                   MOVL
                                                                           D0 9 F B D D 1 2 7 9 1 9
                                                        000000000
                                                                                                   PUSHAB
                                                                                                             #1. SYSSGET
RO. SUCCESS
                                     000000006
                                                                                                   CALLS
                                                                                                   MOVL
                                                                                                             SUCCESS, #98986
28
COUNTER
28
                                     000182AA
                                                                                                   CMPL
                                                                                                   BNEG
                                                                                                  DECL
BLSS
CLRL
                                                                                                                                                                          3088
                                                                            04
9F
7C
FB
                                                                                                                                                                          3090
                                                                                                             -(SP)
                                                        00000000
                                                                                                             WAKEDELTA
                                                                                                   PUSHAB
                                                                                                   CLRQ
                                                                                                             -(SP)
                                                                                                             #4. SYSSSCHOWK
                                     00000000G
                                                    00
                                                                                                   CALLS
```

VC

3093

VC

; Routine Size: 67 bytes. Routine Base: \$CODE\$ + 12FA

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. .

```
N 2
16-Sep-1984 02:16:54
display_proxy - format and output a proxy entry 14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page 110 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (23)
                                                            309978990
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3
                                                                                         *sbttl 'display_proxy - format and output a proxy entry'
       routine display_proxy : novalue =
                                                                                         begin
                                                                                         !++
                                                                                                FUNCTIONAL DESCRIPTION:
                                                                                                                      This routine formats and outputs a line of a NETUAF.DAT entry
                                                                                                 INPUTS:
                                                                                                                      none
                                                                                                OUTPUTS:
                                                                                                                      none
                                                           351113456789012345678901234567890123
1111111111122545678901234567890123
11111111122545678901234567890123
                                                                                                 SIDE EFFECTS:
                                                                                                                      none
                                                                                         bind
                                                                                                                                                                                                                                                           Remote User
|2AD !12AD');
                                                                                                                                                                                  = cstring (' Node
                                                                                                                       nafhdr
                                                                                                                                                                                                                                                                                                                        Local User'),
                                                                                                                                                                                  = cstring ('!6AD::!12AD
                                                                                                                      shownaf
                                                                                         if .wild_netuser
                                                                                         and not
                                                                                                        begin
                                                                                                         Local
                                                                                                                      nodelen, usrlen, proxy_buf : vector[naf$s_remname+2,byte];
                                                                                                                      dbl_colon : vector;
                                                                                                       nodelen = namelen (naf$s_node, netbuf[naf$t_node]);
usrlen = namelen (naf$s_remuser, netbuf[naf$t_remuser]);
                                                                                                        ch$move (.nodelen, netbuf[naf$t_node], proxy_buf [0]);
ch$move (2, .dbl_colon[1], proxy_buf [.nodelen]);
ch$move (.usrlen, netbuf [naf$t_remuser], proxy_buf [.nodelen+2]);
                                                                                                        usrlen = .nodelen + .usrlen + 2;
                                                                                                         fmg$match_name (.usrlen, proxy_buf, .match_tokenlen, match_token)
                                                                                                        end
                                                                                         then
                                                                                                        return;
                                                                                          found_match = true;
                                                            3145
3145
3146
3147
3148
3149
3150
                                                                                         if .header_flag
                                                                                          then
                                                                                                         begin
                                                                                                         faomac (nafhdr);
                                                                                                         output_null;
                                                                                                         header_flag = false;
```

```
display_proxy - format and output a proxy entry 14-Sep-1984 02:16:54
UAFMAIN
VO4-000
                                                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 P. DISK$VMSMASTER: EUAF. SRCJUAFMAIN. B32; 1
                                                                                                                                                                                                                                                                                                          Page 111
1 (23)
    3078
3079
                                      end:
    3080
                                                           faomac (shownaf,
                                                                  naf$s_node, netbuf[naf$t_node],
naf$s_remuser, netbuf[naf$t_remuser],
naf$s_localuser, netbuf[naf$t_localuser]);
6, netbuf[naf$t_node],
12, netbuf[naf$t_remuser],
12, netbuf[naf$t_localuser]);
    3081
    3082
3083
     3084
     3085
     3086
     3087
                                      3161
    3088
                                                         end:
                                                                                                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                                                                                00254
00255
00264
00273
00277
00278
00287
                                                                                                                                                              P.ACN:
                                                                                                                                                                                   .BYTE
                                                                                                                                                                                                         Node
                                                                                                                                                                                                                           Remote User
                                                                                                                                                                                                                                                                  Local User\
                                                                                                                                                              P.ACO:
                                                                                                                                                                                                     20
\!6AD::!12AD
                            20
                                                         32
                                                                   31
                                                                             21
                                                                                      3A
                                                                                                                                                                                   .ASCII
                                                                                                                                                                                                                                            !12AD\
                                                                                                                                                               NAFHDR=
                                                                                                                                                                                                               P.ACN
                                                                                                                                                                                                               P.ACO
                                                                                                                                                               SHOWNAF =
                                                                                                                                                                                   EXTRN SYSSFAO
                                                                                                                                                                                                     $CODE$, NOWRT, 2
                                                                                                                                                                                   .PSECT
                                                                                                                                                                                                   Save R2, R3, R4, R5, R6, R7, R8, R9, R10, R11
HEADER FLAG, R11
SYSSPUT, R10
DBL COLON+4, R9
RABPTR, R8
-68(SP), SP
WILD NETUSER, 1$
#32, #32, NETBUF
R0, #32, NODELEN
#32, #32, NETBUF+32
R0, #32, USRLEN
NODELEN, NETBUF, PROXY_BUF
DBL COLON+4, R0
PROXY_BUF[NODELEN]
(R0), 2(SP)+
USRLEN, NETBUF+32, PROXY_BUF+2[NODELEN]
2(USRLEN, NETBUF+32, PROXY_BUF+2[NODELEN]
2(USRLEN, R5)
PROXY_BUF, R3
MATCH_TOKENLEN, R4
USRLEN, R2
FMG$MATCH_NAME
R0, 3$
#1, FOUND_MATCH
HEADER_FLAG, 2$
NAFHDR; FAODSC
                                                                                                                                    OFFC 00000 DISPLAY_PROXY:
                                                                                                                                                                                                                                                                                                                    3095
                                                                                                                                                                                   WORD
                                                                                                    E 00002

00009

E 00010

E 00017

E 0001E

9 00026

3 00026

3 00036

00036

00049

00043

00046

00049

00050

00050

00064

00064

00064

00064

00064

00064

00064

00065

00072

00075
                                                                                              55555542222C5
                                                                                                                          99999E3C3C2D9B2999DD1EDE9B
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  BLBC
                                                                                                                                                                                                                                                                                                                    3123
3131
                                           060C
                                                            C8
56
C8
57
                                                                                                                                                                                  SUBL3
                                           0620
                                                                                                                                                                                                                                                                                                                    3132
                                                                                                                                                                                  SUBL 3
MOVC 3
                                                                                                                                                                                                                                                                                                                    3133
3134
                                                                             060C
                                                            6E
                                                                                                                                                                                  MOVL
PUSHAB
                                                                                                                                                                                  MOVW
                                                                                                                                                                                                                                                                                                                    3135
3137
3138
                                                02 AE46
                                                                             0620
                                                                                                                                                                                  MOVC3
                                                                                              A746
A8
6E
A8
57
00
01
6B
C9
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                                                                                  MOVAB
                                                                                                                    5C
                                                                                                                                                                                  MOVL
                                                                                                                                                                                  MOVL
                                                                                                     00000000G
                                                                                                                                                                                  JSB
BLBC
                                                                                                                                                                                  BLBC
                                                                             0748
                                                                                                               0140
                                                                                                                                                                                  MOVZBW
                                                                                 FB
```

VO4-000	display_proxy - format	and or	utput a	pro	ху е	ntry 1	4-Sep-	1984 13:21		B32;1 (23)
	FC	A8	0141 F0	C9	9E 9F	0007B 00081 00084		MOVAB	NAFHDR+1, FAODSC+4 DISDSC #34, RABPTR, -(SP) FAODSC	0
	7E	68		55	Ć1	00084		ADDL3	#34, RABPTR, -(SP)	
	000000006	00	F8	03	FB	00088 00088		MOVAB PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS CLRW PUSHL CALLS CLRL MOVAB PUSHAB	#3, SYS\$FAO RABPTR	
		6A		01	DD FB	00092		PUSHL	M1. SYS\$PUT	
		50	22	68	D0 B4	00097 0009A		MOVL	#1, SYS\$PUT RABPTR, RO 34(RO)	
		6A		A0 50	DD			PUSHL	PA .	
			0045	01 68 C9	04	000A2		CLRL	HEADER_FLAG	3150 3159
	F8 FC	A8 A8	0163 0164 0640	69	9B 9E	000A4	28:	MOVZBW	#1, SYS\$PUT HEADER_FLAG SHOWNAF, FAODSC SHOWNAF+1, FAODSC+4 NETBUF+64 #12	3159
			0640	68	9F DD	000B0		PUSHAB	NETBUF+64	
			0620	80	96	00086		PUSHAB	NETBUF+32	
			060C	CS	DD 9F	000AA 000B0 000B4 000B6 000BA 000BC 000C2		PUSHAB	NETBUF	
			FO	8A	DD 9F	00000		PUSHL	M6 DISDSC	
	7E	68	F8	A8 22 A8	C1 OF	000C5 000C9		ADDL3	#34, RABPTR, -(SP)	•
	000000006	00	10	09	FB	000CC		CALLS	FAODSC #9, SYS\$FAO RABPTR	
		6A		68	F8	000D5 000D8		CALLS	#1, SYS\$PUT	3161

```
D 3
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 PADISKSVMSMASTER: [UAF.SRCJUAFMAIN.B32;1
                           wild_user - user wild card routine
                                        %sbttl 'wild_user - user wild card routine'
global routine wild_user (action) =
begin
   144
                                            FUNCTIONAL DESCRIPTION:
                                                       Provide a general means of accessing the User Authorization file records. There are six methods:
                                                                                   IRET
                                                                                   1111
                                                                                   FUUU
                                                                                   LIII
                                                                                   ALLL
                                                                                   GDDD
                                                       Syntax
                                                                                                 Interpretation
                                                       -----
                                                                                                Exactly one user is to be located All users (alphabetically)
All users with the specified UIC All users in the specified group (by member) A FIFO listing of the groups with this member All users by UIC
                                                       Username
                                                                                   FFFT
                                                       [Group, Member]
                                                                                  TFFF
                                                       [Group, *]
                                                                                   TFTF
                                                       [* Member]
[*,*]
                                                                                   TTFF
                                                                                   TTTF
                                            INPUTS:
                                                      ACTION - Pointer to routine to call after each successful GET
                                            IMPLICIT INPUTS:
                                                      UIC_FLAG - UIC form (instead of username)
GRP_WILD - Group wild card (must imply UIC_FLAG)
MEM_WILD - Member wild card (must imply UIC_FLAG)
STR_WILD - all users alphabetically (must imply NOT UIC_FLAG)
UAFRAB - RMS data structure for SYSUAF.DAT
                                                       RECBUF - The current record
                                            OUTPUTS:
                                                       none
                                            IMPLICIT OUTPUTS:
                                                       none
                                            ROUTINE VALUE:
                                                       If an abnormal condition is encountered the appropriate status is returned.
                                             SIDE EFFECTS:
                                                       none
```

```
E 3
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page 114 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (24)
                        wild_user - user wild card routine
  314490123456789012345678901231777777777890
1849012345678901234567890123177777777890
                                    macro
                                                lmt_l_uic = 0.0.32.0%,
lmt_w_mem = 0.0.16.0%,
lmt_w_grp = 2.0.16.0%;
                                                                                                  User ID Code
Member subfield
                                                                                                  Group subfield
                                   local
                                                status,
lmtkey : block[4,byte];
                                                                                                ! This routine's status ! Limiting key value for sequential loop
                                    if .uic_flag
                                    then
                                       Change the key of reference and the key buffer if a UIC form was
                                       specified.
                                         uafrab[rab$b_krf] = 1;
uafrab[rab$l_kbf] = recbuf[uaf$l_uic];
uafrab[rab$b_ksz] = 4;
                                    if .mem_wild and not .grp_wild
                                      The UIC requested was of the form [Group,*]
                        uafrab[rab$v_kge] = true;
                                       LMTKEY need be loaded only IF .UIC_FLAG AND NOT (.GRP_WILD AND .MEM_WILD)
                                      but it is simpler to always load it.
   3181
                                    lmtkey[lmt_l_uic] = .recbuf[uaf$l_uic];
  3182
3183
3184
3185
3186
3187
3188
                                      Locate the first user meeting the specification.
                                   if .str_wild or .grp_wild
                                   then
  3189
3190
3191
3192
3193
3194
3195
3196
3197
3198
3199
3200
3201
3202
3203
                                         begin
                                      Every user in the file is to be accessed.
                                         uafrab[rab$b_rac] = rab$c_seq;
$rewind (rab = uafrab);
                                         status = get_uaf_record ();
                                         end
                                   else
                                         begin
                                         status = get_uaf_record ();
if .uic_flag
                                          then
                                               begin
```

UAI VO

```
F 3
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page 115 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (24)
                      wild_user - user wild card routine
                                    Even an explicit UIC requires sequential reads to locate duplicates.
                                            uafrab[rab$b_rac] = rab$c_seq;
if .mem_wild and not .grp_wild
                                            then
                                                  begin
                      RAB$V KGE is set on the initial access for specifications of the form [Group,*] so if the specified group has no members the record
                                    will be that of a user in another group.
                                                  uafrab[rab$v_kge] = false;
if .lmtkey[imt_w_grp] nequ .recbuf[uaf$w_grp]
                                                  then
                                                       status = rms%_rnf:
                                                  end:
                                            end:
                                       end:
                                 if .status
                                 then
                                      begin
                                    feed the action routine the first record. In the case of an explicit
                                    username specification this will be the only record.
                                       while .status
                                       do
                                            begin
                                                  if .grp_wild and not .mem_wild
then .recbuf[uaf$w_mem] eql .lmtkey[lmt_w_mem]
                                                  else true
                                            then status = (.action) ();
                                            if not .status then exitloop; if not (.str wild or .uic_flag) then exitloop;
                                            status = get_uaf_record ();
if not .status then exitloop;
if .uic_flag
                                            then
                                                 begin
                                    The limiting key value is used in different ways depending on the form of the UIC specification.
                                                  if .mem_wild and not .grp_wild
                                                  then
                                    [Group, *]
                                                       begin
if .lmtkey[lmt_w_grp] nequ .recbuf[uaf$w_grp]
                                                       then exitloop:
                                                 if not (.grp_wild or .mem_wild)
```

```
G 3
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 116 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (24)
                     wild_user - user wild card routine
                                                 then
                                   [Group, Member]
                                                      begin
if .lmtkey[lmt_l_uic] nequ .recbuf[uaf$l_uic]
                                                       then exitloop:
                                                      end:
                                           end:
                                                                                       ! end of wild carding loop
                                      if .status eql rms$_eof
                                      then status = true;
                                                                                       ! Hitting EOF is ok
                                      end:
                                if .str_wild and not .found_match
then LIB$SIGNAL(UAF$_BADSP();
                                   The RAB must be returned to its former state before exiting.
                                 uafrab[rab$b_rac] = rab$c_key;
                                 if .uic_flag
                                 then
                                      begin
                                      uafrab[rab$b_krf] = 0;
uafrab[rab$l_kbf] = recbuf[uaf$t_username];
uafrab[rab$b_ksz] = uaf$s_username;
                                      end:
                      3362
3363
3364
3365
                                   Reset parse count
                                 call_count = 0;
                                 .status
                                end:
```

```
WILD USER, Save R2,R3,R4
GET UAF RÉCORD, R4
GRP_WILD, R3
#4, SP
UIC FLAG, 1$
RECBUF+36, UAFRAB+48
#260, UAFRAB+52
MEM_WILD, 2$
GRP_WILD, 2$
#32, UAFRAB+6
RECBUF+36, LMTKEY
STR_WILD, 3$
GRP_WILD, 4$
UAFRAB+30
UAFRAB+30
UAFRAB
                                                                   001C 00000
                                                                                                                                                                                                                                                                                          3163
                                                                                                                            .ENTRY
                             00000000,
                                                                                                                            MOVAB
                                                              000433F3303
                                                                                                                            MOVAB
                                                                                                                            SUBL 2
BLBC
                                        F95C
0104
04
                                                                                                                            MOVAB
                                                                                                                            MOVW
                                                                                                                           BLBC
BLBS
BISB2
FF26
                                         F950
                                                                                                    28:
                                                                                                                            MOVL
BLBS
BLBC
                                                                                                                                                                                                                                                                                           3265
3266
                                                                                                                            CLRB
                                                                                                                            PUSHAB
                                                                                                                                                   UAFRAB
```

JAFMAIN 104-000	wild_user - user wild	card routine		16-Sep- 14-Sep-	1984 02:10 1984 13:2	6:54 VAX-11 Bliss-32 V4.0-742 1:22 DISK\$VMSMASTER:[UAF.SRC]	JAFMAIN.B32;1 (24)
	0000000G	00 64 52	01 00 50	FB 00045 FB 0004C D0 0004F 11 00052 FB 00054 D0 00057 E9 0005A	CALLS CALLS MOVL BRB	#1, SYSSREWIND #0, GET_UAF_RECORD RO, STATUS	3267
			29	DO 0004F 11 00052 FB 00054 48:	BRB	#0. GET_UAF_RECORD	3259 3271
		64 52 1F FF3E 17	-00900333330E7F2233564005544055445640	74 00036	CALLS MOVL BLBC CLRB BLBS BICB2 CMPW BEQL BLBC BLBC BLBC CMPW CALLS	IIIC FLAG 55	3272 3278 3278
	FF26	14	63	E9 00062 E8 00066 BA 00069 B1 0006E 13 00074 D0 00076 E9 00080 E9 00083 E8 00086 B1 0008A 12 0008F FB 00095 E9 00095 E9 00095 E9 00095 E9 00096 E9 000A6 E9 000A6 E9 000A6 E9 000B0 E9 000B4 E8 000B7 B1 000BA	BLBS BICB2	UAFRAB+30 MEM_WILD, 5\$ GRP_WILD, 5\$ #32, UAFRAB+6 LMTKEY+2, RECBUF+38	
	FF26 F95E	C3 02	AE 07	B1 0006E 13 00074	BEQL		3287 3288
		52 00018282 58 40 08 07 6E F950	52 52	D0 00076 E9 00070 5\$: E9 00080 6\$: E9 00083 E8 00086 B1 0008A	BLBC BLBC	#98994, STATUS STATUS, 128 STATUS, 118 GRP_WILD, 78 MEM_WILD, 78 RECBUF+36, LMTKEY	3290 3295 3302 3306
		08 07 6E F95C	63 A3	E9 00083 E8 00086	BLBC BLBS	GRP WILD, 78 MEM WILD, 78	
	04		07	12 0008F FB 00091 78:	BNEQ	8\$ #0, aaction	3307 3310
		BC 52 34	50 52	DO 00095 E9 00098 8\$:	MOVL BLBC	8\$ #0, aaction R0, Status Status, 11\$ STR_WILD, 9\$ UIC_FLAG, 11\$ #0, GET_UAF_RECORD R0, STATUS STATUS, 11\$ UIC_FLAG, 6\$	3311 3312
		04 08 2C FC	A3 00	D0 00095 E9 00098 8\$: E8 0009B E9 0009F FB 000A3 9\$:	MOVE BLBC BLBC CALLS MOVE BLBC MOVE BLBC MOVE BLBC CMPW	UIC_FLAG, 118 #0, GET_UAF_RECORD	3314
		52 23	50 52	DO 000A6 E9 000A9	MOVL BLBC	RO, STATUS STATUS, 11\$	3316 3316 332
		23 00 FC 50 04 0B	A3 50	E9 000A9 E9 000AC D0 000B0 E9 000B4	MOVL	UIC_FLAG, 6\$ MEM_WILD, RO RO, 10\$ GRP_WILD, 6\$ LMTREY+2, RECBUF+38	3323
	F95E	C6 C3 02	AE OD	E8 000B7 B1 000BA 12 000C0	BLBS CMPW BNEQ	GRP_WILD, 6\$ LMTREY+2, RECBUF+38 11\$	3329
		BB B8 C3		E8 000C2 10\$: E8 000C5	BLBS	GRP_WILD, 6\$ RO, 6\$ LMTKEY, RECBUF+36	3332
	F95C 0001827A	C 3	6E B1 52	D1 000C8 13 000CD D1 000CF 11\$:	BLBS BLBS CMPL BEQL CMPL BNEQ	03	3338 3343
	00010277	52	03	12 00006 00 00008	BNEQ	128 #1, STATUS	3344 3347
		00 00000000 00 00000000000000000000000	556B500AA800AC2C52	E8 000C2 10\$: E8 000C5 D1 000C8 13 000CD D1 000CF 11\$: 12 000D6 D0 000D8 E9 000DB E9 000DF DD 000E3 FB 000E9 90 000F0 FD 000F5 9E 000F9 B0 00100 D4 00105 D4 00105 D4 0010C	MOVL BLBC BLBS PUSHL CALLS MOVB BLBC MOVAB	128 #1, STATUS STR WILD, 138 FOUND MATCH, 138 #UAF\$ BADSPC #1, LIB\$SIGNAL #1, UAFRAB+30 UIC FLAG, 148 RECBUF+4, UAFRAB+48 #32, UAFRAB+52 CALL COUNT STATUS, RO	3348
	00000000G FF3E	63	01 01	FB 000E9 90 000F0 13\$:	CALLS MOVB	#1, LIB\$SIGNAL #1, UAFRAB+30	•
	FF50 FF54	0C C3 F93C	C3	9E 000F9 B0 00100	MOVAB	RECBUF+4, UAFRAB+48	3359 3359 3360
	11,34	50 F914	C 3	D4 00105 14\$: D0 00109	CLRL MOVL RET	CALL COUNT STATUS, RO	3353 3355 3366 3366

; Routine Size: 269 bytes. Routine Base: \$CODE\$ + 1416

46 21

```
UAFMAIN
VO4-000
                                                                            16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                        VAX-11 Bliss-32 V4.0-742 Page 118 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (25)
                   display_brief - writes a brief user display
                            %sbttl 'display_brief - writes a brief user display' routine display_brief =
                            begin
                              FUNCTIONAL DESCRIPTION:
                                     Provide an ASCII listing of the most important record information (username, owner, etc.) for each record supplied.
                              INPUTS:
                                     none
                              IMPLICIT INPUTS:
                                     RABPIR - RMS data structure for the file
                              OUTPUTS:
                                     none
                               IMPLICIT OUTPUTS:
                                     none
                              ROUTINE VALUE:
                                     none
                              SIDE EFFECTS:
                                     none
                            Lststr1 = cstring (' Owner Username UI)
| Pri Directory'),
| Lststr2 = cstring ('!20AC !12AD !15XÚ !8AF !6AC !2UL !AC!AC');
                                                                                                   UIC
                                                                                                               Account Privs',
                              Output a header if one was requested.
                            if .header_flag
                            then
                                 begin
                                 faomac ((ststr1);
                                 output_null;
header_flag = false;
                                 end:
                            then return true;
```

UAI

VO

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44 3A

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20 63

44 20

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```
UAFMAIN
VO4-000
                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 119 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (25)
                                                                                                                                         16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                  display_brief - writes a brief user display
                                                   found_match = true:
                                                       Output the record.
                                                   ch$fill (' ', disbuflen, disbuf);
                                                  faomac (lststr2,
    recbuf[uaf$t_owner],
!***    uaf$s_username, recbuf[uaf$t_username],
    12, recbuf[uaf$t_username],
    .recbuf[uaf$t_uic],
!***    uaf$s_account, recbuf[uaf$t_account],
    8, recbuf[uaf$t_account],
    classify_priv (recbuf[uaf$q_priv], .recbuf[uaf$l_uic]),
    .recbuf[uaf$b_pri],
    recbuf[uaf$t_defdev],
    recbuf[uaf$t_defdir]);
                                                   true
                                                   end:
                                                                                                                                                              .PSECT
                                                                                                                                                                              $PLIT$, NOWRT, NOEXE, 2
                                                                                                                                0028C P.ACP:
0028D
0029C
002AB
                                                                                                                                                              .BYTE
                                                                                                                       422256697155
                                  65
6E
                                                                                                                                                                                                Owner
                                                                                                                                                                                                                              Username
                                                                    25
25
20
20
67
20
67
20
                                                                            200002F
                                                                                                      2000305
                                                                                                              20009477
                                                   77
65
20
73
                                                                                     200000074
                                                                                              20000
20000
20000
                                          20
20
20
20
                                                           4F320767
                                                                                                                                002B5
002C4
002D3
002DB
002DC
002EB
002FA
                                                                                                                                                              .ASCII
                                                                                                                                                                               /UIC
                                                                                                                                                                                                                         Privs Pri Directory\
                                                                                                                                                                                                      Account
                                                                                                                                                                              39
\!20AC !12AD !15%U !8AF !6AC !2UL !AC!AC\
                                                                                                                                            P.ACQ:
                                                                                                              32
55
40
                                                                                                      30
20
20
                                                                                                                                            LSTSTR1=
LSTSTR2=
                                                                                                                                                                                       P.ACP
                                                                                                                                                                                       P.ACQ
                                                                                                                                                              .PSECT
                                                                                                                                                                              SCODES, NOWRT, 2
                                                                                                                     OFFC 00000 DISPLAY BRIEF:
                                                                                                                                                                              Save R2,R3,R4,R5,R6,R7,R8,R9,R10
HEADER FLAG, R10
SYS$FAU, R9
SYS$PUT, R8
LSTSTR1, R7
RABPTR, R6
HEADER FLAG, 1$
LSTSTRT, FAODSC
LSTSTR1+1, FAODSC+4
DISDSC
                                                                                                                                                                                                                                                                                 3371
                                                                                                                                                              .WORD
                                                                                                                                00002
00009
00010
00017
0001E
00025
00028
                                                                                         00000000°
                                                                                                                                                              MOVAB
                                                                                                                 BAVOM
                                                                                                                                                              MOVAB
                                                                                                                                                              MOVAB
                                                                                                                                                              MOVAB
                                                                                                                                                              BLBC
                                                                                                                                                                                                                                                                                 3414
                                                                        F8
FC
                                                                                                      01
F0
                                                                                                                                                              MOVAB
                                                                                                                                                                               DISDSC
#34, RABPTR, -(SP)
                                                                                                                                                              PUSHAB
                                                      7E
                                                                                   66
                                                                                                                                                              ADDL3
```

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JAFMAIN /04-000		display	_brie	f - writes	a b	orief user	disp	lay	1	-Sep-	1984 02:16 1984 13:21	:54	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.	Page 120 832;1 (25)
					69	F8	A6 03	9F FB DD	00038 00038 0003E 00040		PUSHAB	FAODS #3, S	C YSSFA0	•
					68	22	601 600 80	FB DO B4	00043		PUSHAB CALLS PUSHL CALLS MOVL CLRW PUSHL CALLS CLRL BLBC MOVAB	#1, S RABPT 34 (RO	YS\$FAO R YS\$PUT R, RO	
					68		01	FB	00049 0004B 0004E 00050		CALLS	RO W1 S	YS\$PUT	7/1/
					23	0758 18	66	D4 E9 9E 9E	00050	15:	BLBC	STR W	IED, 28 TOKEN, R5	341 342 342
		0080	6		2550224	008Č E0	20 A0	9E 3A 9E	00055 00059 0005E 00064 00068		MOVAB LOCC MOVAB	RECBU #32 -32(R	YSSPUT R FLAG PIED, 28 TOKEN, R5 F+4, R3 #32, RECBUF+4 O), R2 2 TOKENLEN, R4 ATCH_NAME S OUND_MATCH SP), #32, #132, DISBUF	342
					54	00000000G	A6 00 50	DO 16	0006B 0006F		MOVE	MATCH FMGSM	TOKENLEN, R4	342
0084	8F		20	0748	5D C6 6E		50 01 00	E9	00075	2\$:	BLBC MOVL MOVC5	RO, 3	SUND_MATCH SP), #32, #132, DISBUF	342 343
				F B F C	A6 A6	FF6C 4F 50 011C 00FC 028C 00AC 0224	CA7 A7 CC6 CC6 CC6	9B 9E 9F	00078 00070 00087 00087 00087 00099 00099 00098 00085 00085 0000B9 0000B9 0000B9 0000D0 000D0 000D0		MOVZBW MOVAB PUSHAB PUSHAB MOVZBL PUSHAB CALLS PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB CALLS PUSHL CALLS		R2, FAODSC R2+1, FAODSC+4 F+148 F+116 F+516, -(SP) F+36 F+412 LASSIFY_PRIV	344
					7E	028C 00AC	60	9F 9A DD	00099 00099 0009E		MOVZBL PUSHL	RECBU	F+110 F+516, -(SP) F+36	
				v00000000	00	0224	02	FB	000A6		CALLS	#2, C	LASSIFY_PRIV	
						0080	C6 08 C6 C6	9F DD	000AF 000B3		PUSHAB FUSHL	RECBU	1776	
						00AC 008C	60	DD 9F	000B5 000B9		PUSHL	RECBU	F+36 F+4	
						OODC	00 06 00	DD 9f 9f	000BF 000C3		PUSHAB PUSHAB	RECBU	F+36 F+4 F+84 C RABPTR, -(SP) C SYS\$FAO R	
			7E		66	F8	A6 22 A6 00 66	C1 9F	000CA		ADDL3 PUSHAB	#34, FAODS	RABPTR, -(SP)	
					69		0D 66	FB	0000D		PUSHL	M13,	SYS\$FAO R	
					68 50		01	FB 00	00005	38:	MOVL	#1, R	YS\$PUT 0	3448

Routine Base: \$CODE\$ + 1523

; Routine Size: 217 bytes.

```
VO.
```

```
classify_priv - classifies contents of priv vec 14-Sep-1984 02:16:54
UAFMAIN
VO4-000
                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page 121 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (26)
                                     %sbttl 'classify_priv - classifies contents of priv vector' routine classify_priv (prvadr, uic) =
   begin
                                      1++
                                        FUNCTIONAL DESCRIPTION:
                                                  Classifies privilege bits and reports the highest class available
                                                  to the owner of the supplied vector.
                                         INPUTS:
                                                  PRVADR - Address of the privilege vector
                                         IMPLICIT INPUTS:
                                                  none
                                        QUTPUTS:
                                                  none
                                         IMPLICIT OUTPUTS:
                                                  none
                                        ROUTINE VALUE:
                                                  none
                                        SIDE EFFECTS:
                                                  none
                                     map
                                                  prvadr : ref block[8,byte];
                                     bind
                                                  lstprva = cstring
lstprvb = cstring
                                                                              ('ALL')
('Files')
                                                                                'System',
'Devour',
                                                   lstprvc = cstring
                                                   lstprvd = cstring
                                                                                'Group'),
'Normal'),
                                                  lstprve = cstring
lstprvf = cstring
                                                                               ('None');
                                                  lstprvg = cstring
                                     if .prvadr[prv$v_cmkrnl]
or .prvadr[prv$v_cmexec]
or .prvadr[prv$v_sysnam]
or .prvadr[prv$v_detach]
or .prvadr[prv$v_log_io]
or .prvadr[prv$v_setprv]
or .prvadr[prv$v_phy_io]
or .prvadr[prv$v_phy_io]
or .prvadr[prv$v_pfnmap]
or .prvadr[prv$v_sysprv]
```

```
V
```

```
VAX-11 Bliss-32 V4.0-742 Page 122 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (26)
UAFMAIN
VO4-000
                               16-Sep-1984 02:16:54 classify_priv - classifies contents of priv vec 14-Sep-1984 13:21:22
                                              or .prvadr[prv$v_readall]
or .prvadr[prv$v_bypass]
or (.uic<16, 16> lequ .EXE$GL_SYSUIC)
then return lstprva;
   ! Universal Privilege
                                              if .prvadr[prv$v_diagnose]
or .prvadr[prv$v_volpro]
or .prvadr[prv$v_upgrade]
or .prvadr[prv$v_downgrade]
or .prvadr[prv$v_security]
or .prvadr[prv$v_sysgbl]
then return lstprvb;
                                                                                                                             ! Potentially Comprimises File Security
                                              if .prvadr[prv$v_pswapm]
or .prvadr[prv$v_setpri]
or .prvadr[prv$v_world]
or .prvadr[prv$v_oper]
                                               then return lstprvc:
                                                                                                                             ! Can Interfere with System Operation
                                              if .prvadr[prv$v_grpnam]
or .prvadr[prv$v_allspool]
or .prvadr[prv$v_noacnt]
or .prvadr[prv$v_prmceb]
or .prvadr[prv$v_prmmbx]
or .prvadr[prv$v_exquota]
or .prvadr[prv$v_bugchk]
or .prvadr[prv$v_prmgbl]
or .prvadr[prv$v_prmgbl]
or .prvadr[prv$v_shmem]
then_return_lstorvd:
                                               then return lstprvd;
                                                                                                                             ! Can Devour System Resources
                                              if .prvadr[prv$v_group]
or .prvadr[prv$v_grpprv]
                                               then return lstprve;
                                                                                                                             ! Can Interfere with Group Members
                                               if .prvadr[prv$v_tmpmbx]
                                              or .prvadr[prv$v_netmbx]
or .prvadr[prv$v_mount]
                                               then return istprvf:
                                                                                                                             ! Normal Privileges
                                                                                                                             ! Not Privileged
                                               lstprvg
                                               end:
                                                                                                                                                 .PSECT
                                                                                                                                                               SPLITS, NOWRT, NOEXE, 2
                                                                                                                     00303
00304
00307
00308
0030D
00316
00315
00316
                                                                                                                                P.ACR:
                                                                                                                                                 . ASCII
                                                                                                     60
                                                                                                                                                                 /ALL/
                                                                                                                                P.ACS:
                                                                                                                                                 BYTE
                                                                                                     69
                                                                                                                                                 .ASCII
                                                                                                                                                                 \files\
                                                                                                                                 P.ACT:
                                                                                                                                                 .BYTE
                                                                                                                                                 .ASCII
                                                                                                                                                                 \System\
                                                                                                                                 P.ACU:
                                                                                                                                                 .BYTE
                                                                                              76
                                                                                                                                                                 Devour \
                                                                                                     65
                                                                                                                                                 .BYTE
                                                                                                                                                                 (Group)
```

UAFMAIN VO4-000		classif	y_priv	- class	ifie	cont	ents	of	priv	vec 1	N 3 6-Sep-19 4-Sep-19	984 02:16 984 13:21	5:54 VAX-11 Bliss-32 V4.0-742 1:22 DISK\$VMSMASTER:[UAF.SRC]UAF	Page 123 MAIN.B32;1 (26)
			- <b>-</b>	6			72 6E	6F	4E 04 4E	00322 00328 00329	P.ACX:	.ASCII	\Normal\ \None\	
											LSTPRV/ LSTPRV/ LSTPRV/ LSTPRV/ LSTPRV/ LSTPRV/	Έ.	P.ACR P.ACS P.ACT P.ACU P.ACV P.ACW P.ACW	
												.PSECT	\$CODE\$,NOWRT,2	
					52	00000	0000		0004 9F	00000	CLASSI	WORD MOVAB	Save R2	3450
			71		52 50 35 60 60	00000	04	AC 60	9E 00 E 00 E 00	00002 00009 0000D 00010		MOVL BLBS	PRVADR, RO (RO), 1\$	3497
			31 20 29		60			02	EO	00014		BBS BBS	Save R2 LSTPRVA, R2 PRVADR, R0 (R0) 18 W1. (R0). 18 W2. (R0). 18 W5. (R0). 18 (R0)	3498 3499 3500 3501
			21		60			25 0E	19 E0	0001C 0001E 00020		BLSS BBS	(RO) 1\$ #14, (RO), 1\$	•
			1D 19 15		60 60 60 <b>A</b> 0 60			16 1A	EO EO	00024 00028 00020		MOVL BLBS BBS BBS TSTB BLSS BBS BBS BBS BBS BBS BBS BBS BBS B	#22. (RO) 18 #26. (RO) 18 #28. (RO) 18 #3. 4(RO) 18	350 350 350 350 350 350 350
000000006	00	0A	10 0C AC	04	A0 60			03 10 00	EO EO	00030 00035 00039		BBS BBS CMP7V	#29, (RO), 15 #0, #16, UIC+2, EXESGL SYSUIC	3500 3500 3500
		O.A.			51			05 62	1A 9E	00043	15:	MOVAB	LSTPRVA, R1	3509
			16		60		0.4	06 15	EO	0004A 0004E	28:	88S 88S	#6 (RO) 3\$ #21 (RO) 3\$	3511 3512
			09 04 06	04	60 0E A0 A0 60		04	01 06	E0 E8 E0 E0 E1	00056 0005B		882 882	#1, 4(RO), 3\$ #6, 4(RO), 3\$	351 351 351 351 351 351 351
			06		60 51		04	19 A2 40	9E 11	00060 00064 00068	38:	BBC MOVAB BRB	#25, (RO), 48 LSTPRVB, R1 108	
			00 08		60 04 60 51		0.2	0C 0D	EO	0006A 0006E	48:	BBS BBS	#12. (RO). 58 #13. (RO). 58	3519 3520 3521 3523 3523
			06		60 51		02 0A	12	E1	00076 0007A	58:	BBC MOVAB	#18, (RÓ), 68 LSTPRVC, R1	352 352
			20		60			03	EO	0007E 00080 00084	68:	885 885	#3. (RO). 7\$ #4. (RO). 7\$	3525 3526
			16		60 60			09 0A 0B	E0	00088 00080 00090		885 885 885	#3 (R0) 7\$ #4 (R0) 7\$ #9 (R0) 7\$ #10 (R0) 7\$ #11 (R0) 7\$ #19 (R0) 7\$ #23 (R0) 7\$	3528 3528 3529
			14 10 00 08		60 60 60 60 60 60 60		03	0C012505E6AC3D052D660501692DCD0227349AB370	1100881 91000000000000000000000000000000	00045 00048 00048 00056 00056 00058 00068 00068 00078 00078 00078 00078 00088 00090 00094		BRB BBS BBS BBS BBC MOVAB BBS BBS BBS BBS BBS BBS BBS BBS BBS B	LSTPRVA, R1 108 %6 (R0), 38 %21 (R0), 38 %1. 4(R0), 38 %6. 4(R0), 38 %25 (R0), 48 LSTPRVB, R1 108 %12. (R0), 58 %13. (R0), 58 %13. (R0), 58 %18. (R0), 58 %18. (R0), 68 LSTPRVC, R1 108 %3. (R0), 78 %4. (R0), R0 %4.	352 352 352 353 353 353

UAFMAIN V04-000	classify_priv	- classifies	contents	of priv	16-5 vec 14-5	4 ep-1984 02:16 ep-1984 13:2	6:54 VAX-11 Bliss-32 V4.0- 1:22 DISK\$VMSMASTER: [UAF.SI	742 RCJUAFMAIN.B32;1 (26)
	06	60 51	11	1B E1	000A0 000A4 78	BBC MOVAB	#27 (RO) 8\$ LSTPRVD, Ř1	; 3533 ; 3534
	08	04 A0 51 50	01 18	A2 9E 0D 11 A0 E8 02 E1 A2 9E 51 00	000AA 89 000AE 000B3 99 000B7 10	BRB BLBS BBC MOVAB MOVL	10\$ 1(R0), 9\$ #2, 4(R0), 11\$ LSTPRVE, R1 R1, R0	3536 3537 3538
	04 05	60 60 50	16	60 B5 08 19 14 E0 11 E1 A2 9E	000BB 11 000BD 000BF 000C3 000C7 12	BBC MOVAB BRB BLBS BBC MOVAB MOVL RET TSTW BLSS BBS BBC MOVAB RET MOVAB RET MOVAB RET	(RO) 12\$ #20, (RO), 12\$ #17, (RO), 13\$ LSTPRVF, RO	3540 3541 3542 3543
		50	25	A2 9E	000CC 13	S: MOVAB	LSTPRVG, RO	3451 3546

; Routine Size: 209 bytes, Routine Base: \$CODE\$ + 15FC

```
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 PARTICLE PARTI
                                                           display_full - writes the full user display
                                                                                         %sbttl 'display_full - writes the full user display' routine display_full =
      begin
                                                                                               FUNCTIONAL DESCRIPTION:
                                                                                                                       Display the fields of a UAF record.
                                                                                                 INPUTS:
                                                                                                                       RABPTR - RMS data structure for the file
                                                                                                 IMPLICIT INPUTS:
                                                                                                                       none
                                                                                                 OUTPUTS:
                                                                                                                       none
                                                                                                 IMPLICIT OUTPUTS:
                                                                                                                      none
                                                                                                ROUTINE VALUE:
                                                                                                                      none
                                                                                               SIDE EFFECTS:
                                                                                                                      none
                                                                                               Display strings.
                                                                                         Local
                                                                                                                                                     : long ;
                                                                                                        status
                                                                                        bind
                                                                                                                                                                                                                                      | 32AF Owner: | AC')
| 32AF UIC: | XU (!XI)'),
| 32AC Tables: | AC'),
                                                                                                                                                                                          ('Username:
                                                                                                                                                    = cstring
                                                                                                        username
                                                                                                                                                                                         ('Account:
                                                                                                        account
                                                                                                                                                    = cstring
                                                                                                                                                                                          ('CLI:
                                                                                                        cli_table
                                                                                                                                                    = cstring
                                                                                                                                                                                         ('Default: !AC!AC'),
('LGICMD: !AC'),
('Login Flags: !AD')
('Xchar (cr), Xchar ([f), '
('Primary days: !7(AC)'),
('Secondary days:!7(AC)'),
                                                                                                                                                                                                                                      AC!AC'),
                                                                                                        default
                                                                                                                                                     = cstring
                                                                                                          lgicmd
                                                                                                                                                     = cstring
                                                                                                                                                    = cstring
                                                                                                         flags
                                                                                                                                                                                                                                                                                                                                         1),
                                                                                                       flag pad
primdays
                                                                                                                                                    = cstring
                                                                                                                                                    = cstring
                                                                                                        secdays
                                                                                                                                                     = cstring
                                                                                                                                                   = cstring
                                                                                                                                                                                          ('No access restrictions'),
                                                                                                        norestrict
                                                                                                                                 dr1 = cstring (
00000000001111111112222 Secondary 000000000011111111112222'),
                                                           3600
                                                            3601
                                                                                          accesshdr2 = cstring (
'Day Hours 012345678901234567890123 Day Hours 012345678901234567890123'),
```

```
UAF
VO4
```

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                          VAX-11 BLiss-32 V4.0-742 PEDISKSVMSMASTER: CUAF. SRCJUAFMAIN. B32; 1
UAFMAIN
V04-000
                            display full - writes the full user display
                                                                                                                                        AD ),
AD ),
AD ),
AD ),
  ('Network:
                            3604
3605
3606
35607
35607
35607
35611
35616
35616
35616
35616
35616
35616
                                                                      = cstring
                                                 netaccess
                                                                      = cstring
                                                                                        ('Batch:
                                                                                                              AD
                                                 bataccess
                                                                                         'Local:
'Dialup:
                                                                                                             ! AD
                                                                      = cstring
                                                  locaccess
                                                                                                             AD
                                                 diaaccess
                                                                      = cstring
                                                                                                                                        AD'),
                                                                                        ('Remote:
                                                                                                             AD
                                                 remaccess
                                                                      = cstring
                                                                                        ('Expiration: !AD ('Pwdlifetime:
                                                                                                                             Pwdminimum: !2UL
                                                                                                                                                             Login Fails: !5UL'), !AD !AD'),
                                                 expiration
                                                                      = cstring
                                                                                                                                        Pwdchange:
                                                 pwddata
                                                                      = cstring
                                                                                                                             ! AD
                                                                                       ('Pwdlifetime: 'AD Pwdcnange: 'AD',
('Last Login: 'AD (interactive), 'AD (non-interactive)'),
('Maxjobs: '5UL fillm: '5UL Bytlm: '9UL'),
('Maxacctjobs: '5UL Shrfillm: '5UL Pbytlm: '9UL'),
('Maxdetach: '5UL BIOLm: '5UL Jīquota: '9UL'),
('Prolm: '5UL DIOLm: '5UL WSdef: '9UL'),
('Prio: '5UL ASTim: '5UL WSquo: '9UL'),
('Queprio: '5UL TQELm: '5UL WSextent: '9UL'),
                                                  lastlogin
                                                                      = cstring
                                                                      = cstring
                                                 quotal
                                                 quota?
                                                                      = cstring
                                                                      = cstring
                                                 quota3
                                                 quota4
                                                                      = cstring
                                                                      = cstring
                                                 quota5
                                                                     = cstring ('Queprio: !5UL TQELm:
= cstring ('CPU: !13AD Enqlm: !5UL
= cstring ('Authorized Privileges: '),
= cstring ('Default Privileges: '),
                                                 quota6
                                                                                                                                              Pgflquo: !9UL'),
                                                 quota7
                                                 privs
                                                 defprivs
                                                 nullstr
                                                                      = cstring (''),
                                                                     = cstring (' Mon'),
= cstring (' Tue'),
                                                 mon
                                                                                            Tue'),
                                                                      = cstring
                                                 tue
                                                                                      (' Wed'),
(' Thu'),
(' Fri'),
(' Sat'),
(' Sun'),
                                                                      = cstring
                                                 wed
                                                 thu
                                                                      = cstring
                                                                      = cstring
                            3628
3629
3630
3631
3632
3633
3634
3636
3637
3638
3639
                                                                      = cstring
                                                 sat
                                                                      = cstring
                                                 sun
                                                                      = cstring
                                                 noday
                                                                      = recbuf[uaf$l_coutim]; ! CPU limit in hundredths of a second
                                                 coutime
                                                OWN
                            3640
3641
3642
3643
   3571
3572
3573
3574
3576
3576
3578
3578
3580
3581
                                                                                                                                      Disreconnect ),
                                          local
                                                                                                                                  count for string being built
                                                        count,
                                                                                                                                  count of chars on current line
buffer to build display string
                                                        lcount,
                                                                                   : vector [160, byte].
: ref vector [,byte].
                             3656
3657
                                                        string
                                                        flag_string
delta_time
                                                                                                                              pointer to flag string
Scratch area for system delta time
Pointer into UAFSQ PWD_DATE quadword
buffer for time string
                                                                                   : vector [long, 2],
                                                        PTR,
time1
                                                                                   : vector [17, byte],
```

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 127 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (27)
                         display_full - writes the full user display
  time2
                                                                            : vector [17, byte]; : vector [17, byte];
                                                                                                                     buffer for time string
                         buffer for time string
                                      builtin
                                                   emul:
                                      if .str_wild and not fmg$match_name (namelen (uaf$s_username,recbuf[uaf$t_username]),
                                                                                                 recbuf[uaf$t_username],
                                                                                                 .match_tokenTen, match_token)
                                      then return true;
                                      found_match = true;
                                      output_null:
                                      faomac (username,
                                            uaf$s_username, recbuf[uaf$t_username],
recbuf[uaf$t_owner]);
                                      faomac (account,
                                            uaf$s_account, recbuf[uaf$t_account],
   recbuf[uaf$l_uic],
   recbuf[uaf$l_uic]);
                                     faomac (cli_table,
    recbuf[uaf$t_defcli],
    recbuf[uaf$t_clitables]);
                                     faomac (default,
    recbuf[uaf$t_defdev],
    recbuf[uaf$t_defdir]);
                     P
                                      faomac (lgicmd,
    recbuf[uaf$t_lgicmd]);
                         3696
                         3697
3698
3699
3700
                                     count = 0;
lcount = .flags<0.8>;
incr j from 0 to 31
                          3701
                                            begin
if .bitvector [recbuf[uaf$l_flags]...i]
and (flag_string = .flags_vector [.j]) neq 0
                                            then
                                                  begin
if .lcount + .flag_string[0] gtru 80
                                                   then
                                                        chamove (.flag_pad<0.8>, flag_pad+1, string[.count]);
count = .count + .flag_pad<0.8>;
lcount = .flag_pad<0.8> - 2;
                                                         end;
                                                  ch$move (.flag_string[0], flag_string[1], string[.count]);
count = .count + .flag_string[0];
lcount = .lcount + .flag_string[0];
                                                   eng;
```

```
UAFMAIN
VO4-000
                                                                                                                16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page 128 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (27)
                            display_full - writes the full user display
   end:
                                          faomac (flags,
                                                 .count, string);
                                          faomac (primdays,
                                                      .recbuf[uaf$v_monday]
                                                                                                      then noday
                                                                                                                            else mon.
                                                      .recbuf[uaf$v_tuesday]
.recbuf[uaf$v_wednesday]
.recbuf[uaf$v_thursday]
.recbuf[uaf$v_friday]
.recbuf[uaf$v_saturday]
.recbuf[uaf$v_sunday]
                                                                                                                            else tue,
                                                                                                      then noday
                                                                                                      then noday
                                                                                                                            else wed,
                                                                                                      then noday
                                                                                                                             else thu,
                                                                                                      then noday
                                                                                                                            else fri,
                                                                                                      then noday
                                                                                                                             else sat,
                                                                                                      then noday
                                                                                                                             else sun);
                                         faomac (secdays,
    if .recbuf[uaf$v_monday]
    if .recbuf[uaf$v_tuesday]
    if .recbuf[uaf$v_wednesday]
    if .recbuf[uaf$v_thursday]
    if .recbuf[uaf$v_friday]
    if .recbuf[uaf$v_saturday]
                                                                                                      then mon
                                                                                                                             else noday,
                                                                                                      then tue
                                                                                                                            else noday,
                                                                                                      then wed
                                                                                                                            else noday,
                                                                                                      then thu
                                                                                                                            else noday,
                                                                                                                            else noday,
                                                                                                      then sat
                                                                                                                            else noday,
                                                 if .recbuf[uaf$v_sunday]
                                                                                                      then sun
                                                                                                                             else noday);
                            3742
3742
3742
3744
3746
3746
3746
3746
3753
3753
3756
3761
3763
                                          if ch$fail (ch$find_not_ch (10*uaf$s_network_access_p, recbuf[uaf$b_network_access_p], 0))
                                          then
                                                 begin
                                                 faomac (norestrict);
                                                 end
                                          else
                                                 begin
                                                 faomac (accesshdr1);
                                                 faomac (accesshdr2);
                                                display_hours (netaccess, recbuf[uaf$b_network_access_p]);
display_hours (bataccess, recbuf[uaf$b_batch_access_p]);
display_hours (locaccess, recbuf[uaf$b_local_access_p]);
display_hours (diaaccess, recbuf[uaf$b_dialup_access_p]);
                                                 display hours (remaccess, recbuftuaf$b_remote_access_pl);
                                          .recbuf[uaf$b_pwd_length],
.recbuf[uaf$w_logfails]);
                            3764
3765
3766
3767
3768
3769
3770
                                         convert time (recbuf[uaf$q pwd_lifetime], 10, time1);
PTR = RECBUF[UAF$Q PWD_DATE]; ! Because quadwords have 'no' width
if (..PTR eql -1) and (.(.PTR+Xupval) eql -1) then
    ch$move(17, uplit(Xascii' (pre-expired)'), TIME2)
                                          CONVERT_TIME(.PTR, 17, TIME2);
convert_time (recbufLuaf$q_pwd2_date1, 17, time3);
faomac_Tpwddata,
                                                       timel,
                                                        time2,
(. (recbuf[uaf$q_pwd2_date]+0) or . (recbuf[uaf$q_pwd2_date]+4)) eql 0
```

```
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 129 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (27)
                                                                                display_full - writes the full user display
         3706
3707
3708
3709
3710
                                                                                                                                                 then 0 else 17), time3);
                                                                                                                        convert_time (recbuf[uaf$q_lastlogin_i], 17, time1);
convert_time (recbuf[uaf$q_lastlogin_n], 17, time2);
faomac (lastlogin,
                                                                                                                                             17, time1, 17, time25;
                                                                                                                       3792
3793
3794
3795
                                                                                                                       faomac (quota2,
    .recbuf[uaf$w_maxacctjobs],
    .recbuf[uaf$w_shrfillm],
    .recbuf[uaf$l_pbytlm]);
                                                                               3796
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379
                                                                                                                       faomac (quota3,
    .recbuf[uaf$w_maxdetach],
    .recbuf[uaf$w_biolm],
    .recbuf[uaf$l_jtquota]);
                                                                                                                       faomac (quota4,
    .recbuf[uaf$w_prccnt],
    .recbuf[uaf$w_diolm],
    .recbuf[uaf$l_dfwscnt]);
                                                                                                                       faomac (quota5,
    .recbuf[uaf$b_pri],
    .recbuf[uaf$w_astlm],
    .recbuf[uaf$l_wsquota]);
                                                                                                                        faomac (quota6,
    .recbuf[uaf$b_quepri],
    .recbuf[uaf$w_tqcnt],
    .recbuf[uaf$l_wsextent]);
                                                                                                                         faomac (quota7,
13, time1,
                                                                                                                                             .recbuf[uaf$w_englm],
.recbuf[uaf$l_pgflquota]);
                                                                                                                         faomac (privs);
print_priv (recbuf[uaf$q_priv]);
                                                                                                                          faomac (defprivs);
                                                                                                                         print_priv (recbuf[uaf$q_def_priv]);
                                                                                                                                   Build a holder from the UAF record and display the rights
                                                                                                                                   granted to it.
```

UAF VO4	MAIN -000			dis	play	_ful		writ	.es 1	he f	ull	user	dis	play	1	4 6-Sep-19 4-Sep-19	84 02:16 84 13:21	6:54 VAX-11 Bliss-32 V4.0-742 Page 130 1:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (27)
	763 764 765 766 767 768 776 770 771			3833383338844 3844 3844	200	if	rdb beg uai rdb sta end	o_exi	sts ld_h der = ui	olde flag if\$wr	r ()	•		holder				
																	.PSECT	\$PLIT\$,NOWRT,NOEXE,2
46	41	32	33	21	20	3A	65	6D 3A	61	6E	72	65	73 4F	1B 00 55 00	32D 32E 33D 349	P.ACY:	.BYTE	27 \Username: !32AF Owner: !AC\
46 21	41 28	32 20		21 25		20	3A 20	74 20	6E 20	75 3A	6F 43	63	63	55 00 20 00 21 00 41 00 25 00 18 00 25 00 18 00 10 00	349 348 359	P.ACZ:	.ASCII	33 \Account: !32AF UIC: !%U (!%1)\
43	41	32	33 43	21	20 21	20	20 3A	20	20	20	3A 62	49	4C 54	18 00	368 360	P.ADA:	.BYTE	CLI: !32AC Tables: !AC\
41	21	43	41	21	20	20	3A		60	75	61	66	65	44 00	387 388	P.ADB:	.BYTE	16 \Default: !AC!AC\
		43	41	21	20	20	20	3A	44	4D	43	49	47	00 00	397 398 399	P.ADC:	.BYTE	13 \LGICMD: !AC\
41	21	20	3A	73	67	61	60	46	20	6E	69	67	6F	10 00	3A6 3A7	P.ADD:	.BYTE	16 \Login flags: !AD\
20	20	20	20	20	20	20	20	20	20	20	20	20	OA	0F 00	3B6 3B7 3B8	P.ADE:	.BYTE	15 <13><10>\
20	20	3A	73	79	61	64	20	79	72 29	61	6D 41	40	72	50 00	3C7	P.ADF:	.BYTE	Primary days: !7(AC)\
3A	73	79	61	64	20	79	72	61		4.5	4.0			15 00	3D7 3DD 3DE	P.ADG:	.BYTE	21 \Secondary days:!7(AC)\
72	74	73	45	72	20	73	73	65	29	43	41 41	28	65 37	16 00	3ED 3F3	P.ADH:	.BYTE	
16	14	,,	0,	12	20	, ,	,,,	75	6E	6F	69	74	6F 63	14 00	403 40A	P.ADI:		
30 31	30 31	30 31	30 31	30 31	20 31	31	31	79 31	72 31	61 20 79	6D 30	59 30 32	72 30	50 00 30 00	40B		.ASCII	70 \Primary 00000000011111111112222 Seco\
30 32	30 32	30 32	30 32	30 31	30 31	30 31	30 31	51 53 30	31 20 20 31	79 31	75 31	61 31	72 30 32 31	50 000 50 000 52 000 6E 000	433		.ASCII	\ndary 00000000011111111112222\
34		32	31	30	20	73	72	75	6F	48	50	79		46 00	451	P.ADJ:	.BYTE	70 \Day Hours 012345678901234567890123 Day \
	37 32	36 31	35 30	34 39	38	79 32 37	61 31 36	30	300	20 33	33 72 32	32 75 31	61 36 31 6F 30	35 000 30 000 48 000 39 000	451 452 461 470 47A 489		.ASCII	\Hours 012345678901234567890123\

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JAF VO4	MAIN -000			dis	play	_ful	ι -	writ	es t	he 1	ull	user	dis	play	16-Sep- 14-Sep-	984 02:16 984 13:21	5:54 VAX-1: 1:22 DISK\$	BLiss	-32 V4.0-742 ER:[UAF.SRC]	UAFMAI	N.832;1
0	20	44	41	21	20	20	3A 20	6B 20	72 20	6F 20	77	74 20	65	1 C 4 E 2 O	0498 P.ADK: 0499 0488	.BYTE	28 \Network:	AD	!AD\		
0	20		41		20	20	50	20	3A 20	68	63	74 20	61 20	10	1485 P.ADL:	.ASCII	28 \Batch:	AD	!AD\		
0	20	44	41	21	50	20	50	20	3A 20	6 C 20	61	63	6F 20	10	0402 P.ADM:	.BYTE	\Local:	AD	!AD\		
20	20	44		21	50	20	20	3A 20	70 20	75 20	6C 20	61 20	69	10	4EF P.ADN:	.BYTE	28 \Dialup:	AD	!AD\		
0	20		41	21	50	50		3A 20	65	74	6F 20	6D 20	65	10	50C P.ADO:	.BYTE	28 \Remote:	AD	!AD\		
4	41 60	21 75	50 20	3A 69	6E 6F 3A	6F 69 4C 73	69 60 60	74 64 20 69	61 77 20 61	72 50 40 46	69	70 20 32 6E	78 20 21 69	37 45 20 20	529 P.ADP: 524 539 548	.ASCII			Pwdminimum	: !2UL	Lol
03	55 20 64	35 20 77	3A 50	20 65 20	3A 6D 20 41	73 69 20 21	6C 74 20 20	69 65 44 20	61 66 41 3A	46 69 21 65	20 60 67	6E 64 20 6E 21	69 77 20 61 20	67 20 50 20 68	0552 0561 P.ADQ: 0562 0571	.ASCII .BYTE .ASCII	\gin Fails: 45 \Pwdlifetime		!AD Pwd	ichange	: !A\
4	41 29	21	20 76	3A 69				4.5	4.0	44	41			34	)58A )58F P.ADR: )590 )59F	.ASCII .BYTE .ASCII	\D !AD\ 52 \Last Login	!AD (	interactive)	, !AD	(non-\
5	24	20	29	65	6E 74 20 76 20	69 63 6E 69	67 61 6F 74	6F 72 6E 63 73	65 28 61 62	20 74 20 72 6F	6E 44 65	73 69 41 74 78	61 28 21 6E 61	4200920	)5AE )5B8 )5C4 P.ADS: )5C5	.ASCII .BYTE .ASCII	\interactive 50 \Maxjobs:	!5UL	Fillm:	!SUL	Bytl\
0	20	50	20	20	3A 6C 4C	6D 74 55	6C 79 39	73 60 42 21	20 20	46 20 20	20	20 55 20	4C 35 3A	55 21 60 32	)504 )5E3 )5ED )5F7 P.ADT:	.ASCII .BYTE .ASCII	\m: !9UL\				•
5	21	20 3A	3A 6D	73 60	62 60 74 40	6F 69 79 55	6A 66 62	74 72 50 21	63 68 20	63 53 20	61 20 40	78 20 55 3A	61 40 35	4D 55 21	)5F8 )607 )616		\Maxacctjobs		Shrfillm:	!5UL	Pbyt\
35	21	20 20	20	20	3A 3A 75 4C	68 60 71 55		61 4F 4A 21		65 420 20		78 20 55 61		36	05ED 05F7 P.ADT: 0607 0616 0620 062A P.ADU: 062B 063A 065B 065B P.ADV: 065E 066C 066C 066C 066C 066C 066C 06AF 06C3 P.ADX:	.ASCII .BYTE .ASCII	\lm: !9UL\ 50 \Maxdetach:	! <b>5</b> UL	BIOLm:	! SUL	JTqu\
r c	21	20	20	20										\$ F C	0653 0650 P.ADV:	.ASCII .BYTE .ASCII	\ota: !9UL\ 50 \Prclm:	1 F111	DICLE	18111	uedel
55 20	20	20	50	50	3A 65 4C	20 60 64 55	20 53 39	20 4F 57 21	3A 49 20 20	6D 20 20	60 40 20	205	72 40 35 3A	55 21	)660 )670 )686				DIOLm:	! SUL	WSde\
55 20	21	20	20	20	20 3A 75	20 60 71 55	20 653	20 54 57 21	2030	3A 41 20 20	6F 20 4C 20		72C55A	50	0690 P.ADW: 0691 0640	.ASCII .BYTE .ASCII	\f: !9UL\ 50 \Pric:	! SUL	ASTLm:	!5UL	WSqu\
35	21	20	20	20	4C 20	55 20	39 3A	21 6F	20 69	20 72	20 70	20 65	3Å 75	6F 32 51	0689 0663 P.ADX:	.ASCII .BYTE .ASCII	\o: !9UL\ 50 \Queprio:	! SUL	TQELm:	! SUL	WSex\

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VO4	MAIN -000			dis	play	_ful		writ	tes 1	the 1	full	user	dis	play
20	50	20	50	20	3A 78 4C	6D 65 55	6C 53	45	51	20	20 40	<b>20</b>	4 C	55 21
	4.5				46	22	39	21	20	3A	74	10	0)	28
71 50	50 6E	20	20 40	55	35	21	20 20	3A 30	20 6F	20 75	3A 20	3A 6C	50 60 65 55	27246637 7246637
												40		39 17
76	69	72	50	50	64	65	7A 20	69 3A	72 73	6f 65	68	74 65	75 60	69
65	60	69	76	69	72	50	20	74	60	75 20	61 3A	66	65	14 67 00
										20	an	1.0	92	ŎÒ
											45	48	40	04
											6E	6F	40	04
											65	75	54	00000000000000000000000000000000000000
											64	65	57	04
											75	68	54	20
											69	72	46	2020404060
											74	61	53	20
											6E	75	53	20
											20	20	20	ŠÕ
									74	69	64	75	41	20
							65	76	69	74	70	61	43	20 07
								69	60	63	66	65	44	
							79	60	74	63	73	69	44	20 08 20 08 20 08
							60	69	61	60	73	69	44	20
				60	69	61	6D	77	65	6E	73	69	44	0B 20
		74	63	65	6E	6E	6F	63	65	72	73	69	44	00 00 00 00
					74	72	6F	70	65	72	73	69	44	OA 20
					1 4		72		73	75	73	69	44	20
				45	40	48	48	40		77				98 20
				65	60	6F	03	00	65		73	69	44	20
							4.4	64	77	70	6E		47	90
							64	77	70	68	63	6F	40	0C

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16-sep-1984 02:16:54
14-sep-1984 13:21:22
                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 133 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (27)
UAFMAIN
VO4-000
                   display_full - writes the full user display
                                                                         007EE
007FA P.AEX:
007FB
00808 P.AEY:
00817
                                          65 5F 64 77
                                                                                          .ASCII
.BYTE
.ASCII
                       72 69 70
                                                                                                    \_Pwd_expired\
                                                                                                    \ Pwd2_expired\ (pre-expired)\<0><0><0>
                                                                                          .PSECT SOWNS, NOEXE, 2
ADDRESS P.AEN, P.AEM, P.AEV, P.AEL, P.AES, -
P.AET, P.AEP, P.AEO, P.AEU, P.AEW, P.AEX, -
P.AEK, P.AER, P.AEQ

BLKB 72
                                                                         010A4
010BC
010C4
                                                00000000
                                                            000000000
00000000, 00000000, 00000000, 00000000,
                                                                                          .BLKB
                                                                                USERNAME=
                                                                                 ACCOUNT=
                                                                                                         P.ACZ
                                                                                CLI TABLE=
DEFAULT=
                                                                                                         P.ADA
                                                                                                         P. ADB
                                                                                 LGICMD=
                                                                                                         P.ADC
                                                                                 FLAGS=
                                                                                                         P. ADD
                                                                                FLAG PAD=
PRIMDAYS=
                                                                                                         P.ADE
                                                                                                         P. ADF
                                                                                 SECDAYS=
                                                                                                         P.ADG
                                                                                 NORESTRICT=
                                                                                                         P.ADH
                                                                                 ACCESSHDR1=
                                                                                                         P.ADI
                                                                                                         P.ADJ
                                                                                 ACCESSHDR2=
                                                                                                         P.ADK
                                                                                                         P.ADL
                                                                                 LOCACCESS=
                                                                                                         P.ADM
                                                                                 DIAACCESS=
                                                                                                         P.ADN
                                                                                 REMACCESS=
                                                                                                         P.ADO
                                                                                 EXPIRATION=
                                                                                                         P.ADP
                                                                                PWDDATA=
                                                                                                         P.ADQ
                                                                                LASTLOGIN=
                                                                                                         P.ADR
                                                                                QUOTA1=
                                                                                                         P.ADS
                                                                                QUOTA2=
QUOTA3=
                                                                                                         P.ADT
                                                                                                         P. ADU
                                                                                QUOTA4=
                                                                                                         P. ADV
                                                                                QUOTA5=
                                                                                                         P. ADW
                                                                                                         P. ADX
                                                                                QUOTA6=
                                                                                QUOTA7=
                                                                                                         P. ADY
                                                                                PRIVS=
                                                                                                         P. ADZ
                                                                                DEFPRIVS=
                                                                                 NULLSTR=
                                                                                MON=
                                                                                 TUE=
                                                                                 WED=
                                                                                 THU=
                                                                                 FRI=
                                                                                 SAT=
                                                                                 SUN=
                                                                                NODAY=
                                                                                CPUTIME =
                                                                                                         RECBUF +556
```

.PSECT \$CODE\$, NOWRT, 2

VO

UAI

display.	TUL	- Write	ent e	full user					284 02:16 284 13:21	:54 VAX-11 Bliss-32 V4.0-742 :22 DISK\$VMSMASTER: [UAF.SRC]UAFMAI	v.852;1 (27
0000000	00		55555555555555555555555555555555555555	FF1C 00000000° 00000000° E0 00000000° 00000000	CE 000 000 200 200 500 501	9E9EAEE06804	00002 00007 000015 00011 00024 00028 00038		MOVAB BLBC MOVAB LOCC MOVAB MNEGL MOVL JSB BLBS MOVL	Save R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 -228(SP), SP STR WILD, 18 MATCH TOKEN, R5 RECBUF+4, R3 M32, M32, RECBUF+4 -32(R0), R2 R2, R2 MATCH TOKENLEN, R4 FMG\$MATCH_NAME R0, 18 M1, R0	3546 3666 3676 3676
		00000000	00 50	000000000	01 00 A0	040040	0003E 0003F 00046 0004D 00050	18:	RET MOVL MOVL CLRW	#1, FOUND MATCH RABPTR, RO 34(RO) RO	367
		00000000	00 00	3000000° 00000000° 0000000°	01 00 00 00	00080BDB99F90F19F	00052 00059 00064 0006F		PUSHL CALLS MOVZBW MOVAB PUSHAB PUSHAB	#1, SYS\$PUT USERNAME, FAODSC USERNAME+1, FAODSC+4 RECBUF+84 RECBUF+4	368
	7'8	000000000 000000000 000000000	6 00	000000000	00001000000000000000000000000000000000	FB DD FB 9E DD DD	0007B 0007D 00083 0008B 0009E 0009E 000BB 000C2 000C4		PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS MOVZBW MOVAB MOVL PUSHL PUSHL	DISDSC #34, RABPTR, -(SP) FAODSC #6, SYS\$FAO RABPTR #1, SYS\$PUT ACCOUNT, FAODSC ACCOUNT+1, FAODSC+4 RECBUF+36, RO RO	368
	7E	000000000 000000000 000000000 00000000	00	00000000° 00000000° 00000000° 00000000° 000000	00 00 00 00 00 00 00 00 00 00 00 00 00	D9D9C9FDF999FF1FBDBBEF	000CE 000D4 000DC 000E2 000E9		PUSHL PUSHAB PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS MOVZBW MOVAB PUSHAB PUSHAB	RECBUF+52 #32 DISDSC #34, RABPTR, -(SP) FAODSC #7, SYS\$FAO RABPTR #1, SYS\$PUT CLI_TABLE, FAODSC CLI_TABLE+1, FAODSC+4 RECBUF+308 RECBUF+276	368
	7E	000000000	00	000000000	00 00 00 00 00 00 00 00 00 00 00 00 00	9F C19F BDD FB 9F 9F 9F	000EF 000F6 00101 0010C 00112 00118 0012C 00133 00139 00140 0014B 0015C		CALLS MOVZBW MOVAB PUSHAB PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS MOVZBW MOVAB PUSHAB PUSHAB	DISDSC #34, RABPTR, -(SP) FAODSC #5, SYSSFAO RABPTR #1, SYSSPUT DEFAULT, FAODSC DEFAULT+1, FAODSC DEFAULT+1, FAODSC+4 RECBUF+148 RECBUF+116	369

VO

display_full	- writes	the	full user	display	1	6-Sep-1984 4-Sep-1984	02:16	VAX-11 BLiss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.832;1	ge 135 (27)
7E	000000000	00	000000000	00 91 22 C 00 91 05 FI	00162 00168 00170 00176		PUSHAB PUSHAB CALLS	DISDSC #34, RABPTR, -(SP) FAODSC #5, SYS\$FAO	) ) ) )
	00000000	00	000000000	002 91 005 91 005 91 000 90 90 000 90 90 90	00176 00170 00183 00184 00186 00186 00186 00186 00186 00186 00107 00107		CALLS PUSHL CALLS MOVAB PUSHAB ADDL3 PUSHAB CALLS CALLS CURL MOVZBL	#5, SYS\$FAO RABPTR #1, SYS\$PUT LGICMD, FAODSC LGICMD+1, FAODSC+4 RECBUF+212	3696
7E	000000000	00	00000000.	00 91 22 C 00 91 04 FI	001A6 001AC 001B4		PUSHAB ADDL3 PUSHAB	DISDSC #34, RABPTR, -(SP) FAODSC #4, SYS\$FAO RABPTR	
	00000000G	00	00000000	00 DI	00161		PUSHL	RABPIR #1. SYS\$PUT	) ) )
		5B 56	00000000	57 D	001CE		LRL 10VZBL	#1, SYS\$PUT COUNT FLAGS, R11	3698 3699
47	00000000	00 5A	00000000		001DA 001DC 001E4	25:	MOVL CLRL BBC MOVL	R11, LCOUNT  J. RECBUF+468, 48 FLAGS_VECTOR[J], FLAG_STRING	3700 3703 3704
	00000050	58 58 8F		6A 9/ 56 CI 58 D	001EE 001F1 001F4		BEQL MOVZBL ADDL2 CMPL BLEQU MOVZBL	(FLAG_STRING), R8 LCOUNT, R8 R8, #80	3707
44 AE47	00000000	58	00000000	18 11 00 9/ 58 21	001FB 001FD 00204 0020E		MUVLS	FLAG PAD, R8 R8, FLAG PAD+1, STRING[COUNT] R8, COUNT	3710
44 AE47	01	56 50 AA 50	FE	00 9/ 58 20 58 00 A8 90 6A 9/ 50 20 6A 9/ 50 00	00211 00215 00218 0021F	35:	ADDL2 MOVAB MOVZBL MOVZBL ADDL2	RB, COUNT -2(R8), LCOUNT (FLAG STRING), RO RO, 1(FLAG STRING), STRING[COUNT] (FLAG STRING), RO RO, COUNT (FLAG STRING), RO	3711 3712 3714 3715
AD	00000000	50 56 59 00 00	000000000	6A 9/ 50 CC 6A 9/ 50 CC 1F F3 5B BC 00 90 AE 91	0022B 0022F 00236 00241	45:	AOBLEG HOVW HOVAB PUSHAB	#31, J 2\$ R11, FAODSC FLAGS+1, FAODSC+4 STRING	3716 3700 3721
7E	000000000	00	000000000	57 DI 00 91 22 CT 00 91 05 FI	00246		PUSHAB ADDL3 PUSHAB	DISDSC #34, RABPTR, -(SP) FAODSC #5, SYS\$FAO	
09	00000000° 00000000° 00000000°	00 00 00 50	00000000,	5B B(00 91) 57 D(00 91) 600 P(00 91) 600 P(0	00261 00267 0026E 00279 00284 0028C		PUSHL CALLS MOVZBW MOVAB BBC MOVAB	RABPTR #1, SYS\$PUT PRIMDAYS, FAODSC PRIMDAYS+1, FAODSC+4 #6, RECBUF+514, 5\$ NODAY, RO	3730
09	00000000°	50 00 50		07 1 00 91 50 DI 05 E	00295		BRB MOVAB PUSHL	6\$ SUN, RO RO RO #5, RECBUF+514, 78 NODAY, RO B\$	

display_full - writes the full	user display 16-5ep-1984 14-5ep-1984	02:16:54 VAX-11 Bliss-32 V4.0-742 Page 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (27
50 00000	000' 00 9E 002AF 7\$: MC	DVAB SAT, RO
09 00000000 00 50 00000	000, 00 de 00500 WG	BC #4, RECBUF+514, 98 DVAB NODAY, RO
50 00000	000' 00 9E 002C9 98: MC	RB 10\$ DVAB FRI, RO USHL RO
09 00000000 00 00000	000, 00 8E 005DY WG	BC #3, RECBUF+514, 11\$ DVAB NODAY, RO
50 00000	Of IT OUELT	JVAB INU. KU
09 00000000 00 00000	000' 00 9E 002F4 MG	JSHL RO BC #2, RECBUF+514, 13\$ DVAB NODAY, RO RB 14\$
50 00000	000' 00 9E 002FD 131: MC	RB 14\$ DVAB WED, RO USHL RO
09 00000000 00 50 00000	000' 00 9E 0030E MG	NOTAL WI, RECBUF+514, 155 DVAB NODAY, RO
50 00000		DVAB TUE RO
09 00000 50 00000	000' 00 E9 00320 BL	BC RECBUF+514, 17\$ DVAB NODAY, RO
50 00000	000' 00 9E 00330 17\$: MO 50 00 00337 18\$: PO 000' 00 9F 00339	DVAB MON. RO USHL RO
7E 00000000° 00 00000	50 DD 00337 188: PC 000' 00 9F 00339 PC 22 C1 0033F AC 000' 00 9F 00347 PC	JSHAB DISDSC DDL3 #34, RABPTR, -(SP) JSHAB FAODSC
00000000G 00 00000	000' 00 9F 00347 PL	ALLS #10, SYS\$FAO  JSHL RABPTR ALLS #1, SYS\$PUT
00000000 00 00000 00000000 00 00000 000000	04 61 00377 PE	DVAB SECDAYS+1, FAODSC+4  BC #6, RECBUF+514, 19\$
50 00000	000' 00 9E 0037F MG	(8 20)
09 00000000° 00 50 00000	50 DD 0038F 20\$: PL 05 E1 00391 BE 000' 00 9E 00399 MC	DVAB NODAY, RO USHL RO BC #5. RECBUF+514, 218 DVAB SAT, RO RB 228
50 00000	07 11 003A0 BF 000' 00 9E 003A2 218: MC 50 DD 003A9 228: PL	IVAM NUDAY, WO
09 00000000 00 50 00000	50 DD 003A9 228: PL 04 E1 003AB BE 000' 00 9E 003B3 MC 07 11 003BA BE 000' 00 9E 003BC 238: MC 50 DD 003C3 248: PL 03 E1 003C5	DVAB FRI RO
50 00000	000' 00 9E 003BC 238: MC	DVAB NODAY, RO
09 00000000 00 50 00000	000° 00 9≥ 003CD ==0	JSHL RO BC W3. RECBUF+514, 25\$ DVAB THU, NO RB 26\$
50 00000	000' 00 9E 003D6 258: MG	DVAB NODAY, RO
09 00000000 00 00000	000' 00 9E 003DF BE 000' 00 9E 003DF BE 000' 00 9E 003E7 MG	JSHL RO BC #2, RECBUF+514, 27\$ DVAB WED, RO

CALLS PUSHAB

PUSHAB

CALLS

PUSHAB

BATACCESS

#2. DISPLAY\_HOURS RECBUF+484

00000000V 00

00000000V 00

000000000

00000000

UAF VO4

3752

display_full - writes	the	full user	display	16	5 -Sep-1 -Sep-1	984 02:16 984 13:21	54	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAF	Page 138
00000000v	00	00000000.	00 9F 02 FB 00 9F 00 9F	00549		PUSHAB CALLS PUSHAB	LOCACO #2. DI RECBUF	ESS SPLAY_HOURS +490	3754
00000000v	00	00000000.	00 9F 02 FB 00 9F 00 9F	00562		PHICHAR	DIAACC	ESS SPLAY HOURS	375
00000000v	00	58 00000000.	AE 9F	0056F 00575 0057C	35\$:	PUSHAB	ITME	+496 ESS SPLAY_HOURS	3758
00000000° 00000000°	00 00 7E 7E	00000000° 00000000° 00000000° 00000000°	11 DD 00 9F 03 FB 00 9B 00 9E 00 3C 00 9A AE 9F	0057F 00581 00587 0058E 00599 005A4 005AB 005B2		PUSHAB CALLS MOVZBW MOVAB MOVZWL MOVZBL PUSHAB	RECBUF RECBUF TIME1	NVERT_TIME TION, FAODSC TION+1, FAODSC+4	3762
7E 00000000°	00	00000000,	11 DD 00 9F 22 C1 00 9F	005B5 005B7 005BD 005C5 005CB		PUSHAB ADDL3 PUSHAB	#17 DISDSC #34, R FAODSC	ABPTR, -(SP)	
000000006	00	28	AF QF	00502 00508 0050F 005E2		CALLS PUSHL CALLS PUSHAB PUSHL	#7, SY RABPTR #1, SY TIME1 #10	S\$PUT	3764
00000000V FFFFFFF	00 50 8F	00000000.	0A DD 00 9F 03 FB 00 9E 60 D1	005E4 005EA 005F1 005F8		PUSHAB CALLS MOVAB CMPL	RECBUF RECBUF (PTR)	+372 INVERT_TIME +380, PTR #-1	376 376
FFFFFFF	8F	04	15 12 A0 D1 OB 12	005FF 00601 00609		BNEQ CMPL BNEQ	4(PTR) 36\$	. #-1	9 8 8
14 AE 00000000°	00	14	11 28	0060B	36\$:	MOVC3 BRB PUSHAB PUSHL	#17, P 37\$ TIME2 #17	AEY, TIME2	3767 3769
0000000v	00		11 DD 50 DD 03 FB 5E DD 11 DD	0061D 00624 00626	37\$:	PUSHL CALLS PUSHL PUSHL	#17	NVERT_TIME	3770
00000000°	00	00000000;	11 DD 00 9F 03 FB 00 9B 00 9E	00628 0062E 00635 00640		PUSHL PUSHL PUSHAB CALLS MOVZBW MOVAB	RECBUF #3, CO PWDDAT PWDDAT	+388 NVERT TIME A, FAÖDSC A+1, FAODSC+4	3776
50 00000000°	00	00000000°	00 98 00 9E 5E DD 00 C9 04 12 7E D4	00614 00616 00619 00618 00624 00628 00628 00628 00648 00649 00659 00659 00666 00666 00666 00666 00666		BISL3 BNEQ CLRL	RECBUF 38\$ -(SP)	+392, RECBUF+388, RO	0 0 0 0 8
		1 C 38	11 DD AE 9F 11 DD	0065F 00661 00664	388: 398:	BRB PUSHL PUSHAB PUSHL PUSHAB	398 #17 TIME2 #17 TIME1		8 8 9 9
7E 00000000°	00	00000000.	11 DD AE 9F OA DD 00 9F 22 C1	00669 0066B 00671		PUSHAB PUSHAB ADDL3	#10 DISDSC	ABPTR, -(SP)	# # # # # # # # # # # # # # # # # # #

04-000	display	_full	- writes	the	full user	disp	lay	16-5 14-5	ep-1984 02:16 ep-1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 :22 DISKSVMSMASTER: [UAF.SRC]UAFMAI	Page 139 N.B32;1 (27)
			000000006	00	00000000	00	9F FB	00679 0067f	PUSHAB	FAODSC #9 SYS\$FAO RABPIR	
			0000000G	-	00000000.	00 09 00 01	DD FB	00686 00680	PUSHL	RABPTR #1 SYSSPUT	
					28	AÉ	9F	00695	PUSHAB	#1, SYS\$PUT TIME1 #17	3778
			00000000v	00	00000000	00	DD 9F FB	00698 0069E	PUSHA8 CALLS	RECBUF+396 #3. CONVERT_TIME TIME2	
					14	AE 11	9F DD 9F	006A5 006A8	PUSHAB	#17	3779
			00000000v	00	00000000	00	FB	006AA	PUSHAB	RECBUF+404 #3. CONVERT TIME	
			00000000°	00	00000000	00	9B 9E	006B7 006C2	MOVZBW MOVAB	LASTLOGIN, FAODSC LASTLOGIN+1, FAODSC+4	3782
					14	AE 11	9f DD 9f	00679 00676 00686 00698 00698 00698 00698 00687 00687 00600 00600 00607 00607 006607 006607 006607 006607	PUSHAB CALLS PUSHL CALLS PUSHAB PUSHAB CALLS PUSHAB CALLS PUSHAB CALLS MOVZBW MOVAB PUSHAB PUSHAB PUSHAB	RECBUF+404 #3. CONVERT TIME LASTLOGIN, FAODSC LASTLOGIN+1, FAODSC+4 TIME2 #17 TIME1	
					30	AE 11	9f DD 9f	006D2 006D5	PUSHAB PUSHL	W17	
		7E	00000000.	00	000000000	\$5 00	9F C1 9F	006D7 006DD	ADDL3	DISDSC #34, RABPTR, -(SP)	•
			0000000G	00	000000000	07	FB	006E5	CALLS	FAODSC M7, SYS\$FAO RABPTR	•
	£1 600000001	00	0000000G	00	00000000.	01	DD FB	006F8	CALLS	RABPTR #1, SYS\$PUT	
	51 00000000°	00		09	00000000° FFFE7960	00	EF E9 D0	006F8 006FF 00708 0070F 00716	PUSHAB PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS EXTZV BLBC MOVL BRB CLRL S EMUL	#1, SYS\$PUT #1, #31, CPUTIME, R1 CPUTIME, 40\$ #-100000, R0	3784 3785
				30	77767900	20	11	00716	BRB	413	•
30	AE	50		51	FFFCF2C0 28	02070110F20FED	7 A 9 F	00718 40 0071A 41	S: EMUL PUSHAB	RO #-200000, R1, RO, DELTA_TIME TIME1	3784 3786
					44	OD AF	DD	00724 00727 00729 0072C	PUSHAB	#13 DELTA_TIME	3700
			00000000v	00		AE 03	FB 9B	0072¢	CALLS	#3 CONVERT TIME	3791
			000000000	00	00000000° 00000000° 00000000° 00000000°	00	9B 9E DD	00733 0073E 00749	MOVZBU MOVAB PUSHL MOVZWL MOVZWL PUSHAB ADDL3 PUSHAB CALLS PUSHL CALLS MOVZBU MOVZBU MOVZWL MOVZWL PUSHAB ADDL3 PUSHAB ADDL3 PUSHAB CALLS PUSHL	QUOTA1, FAODSC QUOTA1+1, FAODSC+4 RECBUF+560 RECBUF+536, -(SP) RECBUF+518, -(SP) DISDSC #34, RABPTR, -(SP)	
				7E 7E	00000000	00	3C 3F C1 9F	00749 0074F 00756 00750 0076B 00771 00778 0077E 00785 00790 00798	MOVZWL	RECBUF+536, -(SP) RECBUF+518, -(SP)	
		7E	00000000	00		55	9F	0075D 00763	PUSHAB ADDL3	DISDSC #34, RABPTR, -(SP)	9
			000000006	00	00000000.	00	9F FB	0076B 00771	PUSHAB CALLS	FAODSC #6, SYS\$FAO RABPTR	
			000000006	99	00000000.	00	FB DD FB 9B 9E	00778 0077E	PUSHL	RABPTR #1, SYS\$PUT	
			00000000 000000000 000000000	00	00000000° 00000000° 00000000° 00000000°	00		00785	MOVAB	QUOTAZ+1, FAODSC+4	3796
				7E	000000000	00	3C	0079B	MOVZWL	RECBUF+538, -(SP)	*
		76	00000000	76	00000000	ğğ	9F	007AF	PUSHAB	#1, SYS\$PUT QUOTA2, FAODSC QUOTA2+1, FAODSC+4 RECBUF+564 RECBUF+538, -(SP) RECBUF+520, -(SP) DISDSC #34, RABPTR, -(SP)	•
		76	000000000	00	00000000	00	9F	007BD	PUSHAB	I MODGC	
			000000006		00000000	00000000000000000000000000000000000000	DCCCF1FBDB	007A8 007AF 007B5 007BD 007C3 007CA 007D0	PUSHL	#6, SYS\$FAO RABPTR	
			00000000	00	00000000	00	98	00707	MOVZBW	W1, SYS\$PUT QUOTA3, FAODSC	3801

display_ful	- writes	the	full user	display	16-Sep-1984 02:16 14-Sep-1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 :22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B3	Page 140 32;1 (27)
	00000000	00	00000000° 00000000° 00000000°	9EDCCCF1FBDCCCF1FBDCCCF1FBDCCCCF1FBDCCCCF1FBDCCCCF1FBDCCCCF1FBDCCCCF1FBDCCCCCF1FBDCCCCCCCCCC	007E2 MOVAB 007ED PUSHL	QUOTA3+1, FAODSC+4 RECBUF+568 RECBUF+526, -(SP) RECBUF+522, -(SP)	0
		7E	00000000	00 30	007FA MOVZWL	RECBUF+526, -(SP) RECBUF+522, -(SP)	•
7E	00000000	00	00000000	00 9F	007FA MOVZWL 00801 PUSHAB 00807 ADDL3	#34, RABPTR, -(SP)	
	000000006	00	00000000.	00 9F	0080F PUSHAB	FAODSC #6, SYS\$FAO	
	000000006	00	00000000	00 DD	0081C PUSHL 00822 CALLS	RABPTR #1, SYS\$PUT	
	00000000	00	00000000	00 9B	00829 MOVZBV 00834 MOVAB	QUOTA4+1, FAODSC+4	3806
		7E	00000000	00 DD 01 FB 00 9B 00 DD 00 3C 00 3C	007F3 MOVZWL 007FA MOVZWL 00801 PUSHAB 00807 ADDL3 0080F PUSHAB 00815 CALLS 0081C PUSHL 00822 CALLS 00829 MOVZBW 00834 MOVAB 0083F PUSHL 00845 MOVZWL	RABPTR #1, SYSSPUT QUOTA4, FAODSC QUOTA4+1, FAODSC+4 RECBUF+544 RECBUF+528, -(SP) RECBUF+524, -(SP)	•
30		7E	000000000	00 3C	00853 PUSHAR	013030	•
/E	000000000	00	00000000	22 C1		#34, RABPTR, -(SP) FAODSC	•
	00000000G		00000000	06 FB 00 DD	0086F PUSHL	#6, SYS\$FAO RABPTR	•
	000000000 000000000	00	00000000	00 DD 01 FB 00 9B 00 9E 00 DD 00 3C	00878 HOVZBH	#1. SYS\$PUT QUOTAS, FAODSC QUOTAS+1, FAODSC+4 RECBUF+540 RECBUF+532, -(SP) RECBUF+516, -(SP)	3811
	00000000	00	00000000	00 DD	00886 MOVAB 00891 PUSHL 00897 MOVZWL	RECBUF+540	•
		7E 7E	00000000	00 9A	0089E MOVZBL	RECBUF+532, -(SP) RECBUF+516, -(SP)	
7E	00000000	00		00 9F 22 C1	008AB ADDL3	#34, RABPTR, -(SP)	
	000000006	00		00 9F 06 FB	008B9 CALLS	#6, SYS\$FAO	
	000000006	00	000000000	01 FB	008C0 PUSHL 008C6 CALLS 008CD MOVZBU	RABPTR #1, SYS\$PUT	791/
	000000000	00	00000000	00 9B 00 9E 00 DD 00 3C 00 9A 00 9F 22 C1 00 9F 06 FB 00 DD	008CD MOVZBU 008D8 MOVAB	QUOTA6, FAODSC QUOTA6+1, FAODSC+4	3816
		7E	00000000	00 30	008E3 PUSHL 008E9 MOVZWL 008F0 MOVZBL	QUOTA6+1, FAODSC+4 RECBUF+548 RECBUF+530, -(SP) RECBUF+517, -(SP)	
20	000000001		000000000	00 9A	OUBF / PUSHAB	012026	
78	000000000	00	00000000	00 9F	008FD ADDL3 00905 PUSHAB	#34, RABPTR, -(SP) FAODSC	
	00000000G		00000000	06 FB	0090B CALLS 00912 PUSHL	M6, SYS\$FAO RABPIR	8
	000000000 000000000	00	000000000	00 DD 01 FB 00 9B 00 9E 00 DD 00 3C AE 9F	00918 CALLS 0091f MOVZBU	W1, SYS\$PUT QUOTA7, FAODSC	3821
	00000000		00000000	00 90	00935 MOVAB	QUOTA7, FAODSC QUOTA7+1, FAODSC+4 RECBUF+552 RECBUF+534, -(SP)	
		7E	30	AE 9F	00935 PUSHL 0093B MOVZWL 00942 PUSHAB	TIMET	•
76	000000001	00	00000000°	0D DD 00 9F	00945 PUSHL 00947 PUSHAB	DISDSC DISDSC	
7E	000000000	00	00000000.	00 9F	00955 PUSHAB	#34, RABPTR, -(SP) FAODSC #7, SYSSFAO	0 0 0
			00000000°	07 FB 00 DD 01 FB 00 9B 00 9E	0095B CALLS 00962 PUSHL	RABPTR	•
	00000000°	00	000000000	00 9B	00968 CALLS 0096F MOVZBU 0097A MOVAB	#1 SYSSPUT PRIVS, FAODSC PRIVS+1, FAODSC+4	3823

3 3 3	32	32	32
3679	7		4

UAI

VO

VAX-11 BLiss-32 V4.0-742 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1

				000	000006	00	(	01	FB 00A20 04 00A27
0	Routine	Size:	2600	bytes,	Routine	Base:	\$CODE\$	+	16CD

display\_full - writes the full user display

00

00

00

7E 00000000°

00000000G

00000000G

00000000v

00000000G

00000000G

00000000V

00000000G

000000006

7E 00000000°

00000000

00000000

00000000

000000000

000000000

000000000

000000000

000000000.

00000000.

00000000G

UAFMAIN VO4-000

16-Sep-1984 02:16:54 14-Sep-1984 13:21:22

PUSHAB ADDL3

PUSHAB

CALLS

PUSHL CALLS PUSHAB

CALLS

MOVAB

ADDL3

PUSHAB

PUSHAB

CALLS PUSHL CALLS PUSHAB

CALLS

CALLS

MOVB

PUSHAB

CALLS

RET

DISDSC #34, RABPTR, -(SP) FAODSC

#1, PRINT PRIV DEFPRIVS, FAODSC DEFPRIVS+1, FAODSC+4

#1, PRINT PRIV
RDB\_EXISTS, 42\$
#0, UAF\$BUILD HOLDER
#1, RDB\_HEADER\_FLAG

#1, UAFSWRITE\_RIGHTS

DISDSC #34, RABPTR, -(SP) FAODSC

#3, SYS\$FAO

#1, SYS\$PUT RECBUF+412

#3. SYS\$FAO

#1. SYS\$PUT RECBUF+420

HOLDER

00985 00988 00993 00999 009A0 009A0 009A0 009B3 009B3

00900

00906

009DE

009E4

009EB

009F1

009F8

009fE

00A05

OOAOC

00A13

00A1A

9C9FDBF9FBBEF1FBDBFBB9B0F

```
UAFMAIN
                                                                                                                        VAX-11 BLiss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                        16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
V04-000
                      display_hours - display hourly restrictions
 %sbttl 'display_hours - display hourly restrictions' routine display_hours (format_string, hour_vector) : novalue =
                                 begin
                                 1++
                                   FUNCTIONAL DESCRIPTION:
                       3850
                      Displays the hourly access for primary and secondary days
                                            for one access type.
                                   INPUTS:
                                           format_string: address of FAO string for display hour vector: address of UAF record hourly vector RABPTR - RMS data structure for the file
                                   IMPLICIT INPUTS:
                                            none
                                   OUTPUTS:
                                            none
                                   IMPLICIT OUTPUTS:
                                            none
                                   ROUTINE VALUE:
                                           none
                      3875
3876
3877
3878
3879
                                   SIDE EFFECTS:
                                           none
                      3880
                                   Display strings.
                                      hour_vector : ref bitvector;
                      3888
                                Literal
                                            yeschar
                                                                 3890
                                            nochar
                       3891
                                bind
                                                                 = cstring ('---- No access -----'), = cstring ('##### Full access ######');
                                            noaccess
                                            fullaccess
                                 local
                                                                  vector [24. byte].
vector [24. byte];
                                            pri_access
                                                                                                     Character string for primary access
                                                                                                   ! Character string for secondary access
                                            sec_access
```

```
UAFMAIN
VO4-000
                                                                                                                               16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                display_hours - display hourly restrictions
                                               if . (hour_vector[0])<0.24> eql 0
then ch$move (24, fullaccess+1, pri_access)
else if . (hour_vector[0])<0.24> eql %x'ffffff'
then ch$move (24, noaccess+1, pri_access)
else incr j from 0 to 23
   do
                                                       begin
if .hour_vector[.j]
then pri_access[.j] = nochar
else pri_access[.j] = yeschar;
                                                        end:
                                               if . (hour_vector[0])<24,24> eqt 0
then ch$move (24, fullaccess+1, sec_access)
else if . (hour_vector[0])<24,24> eqt %x'ffffff'
then ch$move (24, noaccess+1, sec_access)
else incr j from 0 to 23
                                 3912
3913
                                3914
3915
                                3916
3917
                                                do
                                3918
3919
                                                       begin
if .hour_vector[.i+24]
then sec_access[.i] = nochar
else sec_access[.j] = yeschar;
                                3920
3921
                                3922
3923
                                                        end:
                                3924
3925
3926
3927
                                               faomac (.format_string,
24, pri_access,
24, sec_access
   3860
                                               end:
                                                                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                                                       0081C P.AEZ:
73 65 63 63 61
                                                                                                               2D
73
18
                                                                                                                                                    .ASCII
                                       20
                                                                                                                                                                                   No access -----
                                                                                                                       0082C
00835
                                                                                                                                   P.AFA:
                                                                                                                                                                   24
\##### Full access ######\
                                                                                                                       00836
00845
     63 63
                       61
                               50
                                       60
                                                                                                                                                    .ASCII
                                                                                                                                   NOACCESS=
                                                                                                                                                                           P. AEZ
P. AFA
                                                                                                                                   FULLACCESS=
                                                                                                                                                   .PSECT
                                                                                                                                                                  $CODE$, NOWRT, 2
                                                                                                              O1FC 00000 DISPLAY_HOURS:
                                                                                                                                                                  Save R2,R3,R4,R5,R6,R7,R8
FULLACCESS+1, R8
FAODSC, R7
#48, SP
HOUR VECTOR, R6
#0, #24, (R6), #0
                                                                                                                                                                                                                                                              3844
                                                                                                                                                    . WORD
                                                                                                                       00002
00009
00010
00013
00017
0001C
0001E
00023
                                                                                   00000000
                                                                                                                 9EE200E281
                                                                              58
57
56
18
                                                                                                                                                   MOVAB
                                                                                                                                                   MOVAB
                                                                                                                                                   SUBLZ
                                                                                                                                                                                                                                                              3900
                                                                                                08
                                                                                                                                                   MOVL
                      00
                                                  66
                                                                                                                                                   BNEQ
                                                                                                                                                                   #24, FULLACCESS+1, PRI_ACCESS
                                                                                                                                                                                                                                                              3901
                                                                              68
                                        18
                                                  AE
                                                                                                                                                   MOVC3
                                                                                                                                                   BRB
```

UAF VO4

UAFMAIN V04-000		display.	hour	s - displ	ay hour	ly restr	iction	18	-Sep-	1984 02:16 1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 :22 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.E	Page 144 B32;1 (28)
OFFFFF	8F		66		18		00	9 00025	15:	CMPZV BNEQ MOVC3	#0, #24, (R6), #16777215	3902
		18	AE	E7	A8		18	8 00030		MOVC3	124, NOACCESS+1, PRI_ACCESS	3903
			07	18	66 AE40		50 E	4 00038 1 0003A 0 0003E	28: 38:	BRB CLRL BBC MOVB	J (R6) 48 445, PRI_ACCESSEJ]	3904 3907 3908
	50		E C 66	18	AE40 50 18		23 17 18	00045 3 0004A F 0004E	48: 58: 68:	BRB MOVB AOBLEQ EXTZV BNEQ MOVC3	#35, PRI ACCESS[J] #23, J. 38 #24, #24, (R6), RO	3909 3904 3912
			6E		68		18	2 00053 8 00055 11 00059		MOVC3	#24. FULLACCESS+1, SEC_ACCESS	3913
				OOFFFFF	8F		50	1 0005B	78:	BRB CMPL	#24, FULLACCESS+1, SEC_ACCESS 128 RO, #16777215	3914
			6E	E7	88		18	2 00062 8 00064 1 00069		BNEQ MOVC3	#24, NOACCESS+1, SEC_ACCESS	3915
			06		51 66 6E40	18	A0 9	04 0006B 05 0006D 1 00071 00 00075	8\$: 9\$:	BRB CLRL MOVAB BBC MOVB	24(RO), R1 R1, (R6), 10\$ #45, SEC_ACCESS[J]	3916 3919 3920
			EA		6E40 50 67	04		11 00079 00 00078 3 0007f 9B 00083	108: 118: 128:	BRB MOVB AOBLEQ MOVZBW	#35, SEC_ACCESS[J] #23, J. 98 afurmat string, faodsc #1, format_string, faodsc+4 SP	3921 3916 3927
		04	A7	04	AC		01 ( 5E ( 18 (	00087 000080 00008F		ADDL3 PUSHL PUSHL	#1, FORMAT_STRING, FAODSC+4 SP #24	
						20	18 0	00091 00094		PUSHAB PUSHL	PRI_ACCESS	
			7E	08	A7	F8	55 (	00096 1 00099		PUSHAB ADDL3	DĪSDSC #34, RABPTR, -(SP)	
				000000006		08	07 F	0009E B 000A0 D 000A7 B 000AA		MOVB AOBLEQ MOVZBW ADDL3 PUSHL PUSHAB PUSHAB ADDL3 PUSHL CALLS PUSHL CALLS PUSHL	#7, SYS\$FAO RABPTR #1, SYS\$PUT	3928

Routine Base: \$CODE\$ + 20F5

; Routine Size: 178 bytes,

```
UAFMAIN
VO4-000
                                                                                                                                  16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page 145
DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (29)
                                convert_time - convert time value to string
  386645
386645
386667
3886667
388667
388777
388777
38888
38888
38888
38888
38888
38888
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38888
38888
                                                %sbttl 'convert_time - convert time value to string' routine convert_time (time, length, buffer) : novalue =
                                 3929
3930
3932
3933
3933
3935
3939
3940
3941
3943
                                                 begin
                                                    FUNCTIONAL DESCRIPTION:
                                                                 Converts the binary time value into a string, substituting the string "(none)" if the value is zero.
                                                     INPUTS:
                                                                time: address of quadword time
length: length of output string
buffer: address of output buffer
                                 39445
39467
39467
3949
39551
39551
395567
39558
3959
                                                     IMPLICIT INPUTS:
                                                                 none
                                                     OUTPUTS:
                                                                 none
   IMPLICIT OUTPUTS:
                                                                 none
                                                     ROUTINE VALUE:
                                 3960
3961
3962
3963
3964
3965
3966
3967
3968
3969
                                                                 none
                                                     SIDE EFFECTS:
                                                                 none
                                                 map
                                                                 time
                                                                                                  : ref vector:
                                                 local
                                 971
972
973
974
975
976
977
978
                                                                                                  : vector [2]:
                                                                                                                                  ! descriptor for buffer
                                                                 string_desc
                                                 if (.time[0] or .time[1]) eql 0
                                                 then
                                                        begin
ch$fill (' ', .length-6. .buffer);
ch$move (6, uplit byte ('(none)'), .buffer+.length-6);
                                 3980
3981
3982
3983
3984
3985
                                                 else
                                                         string_desc[0] = .length;
string_desc[1] = .buffer;
sasctim (timadr = .time, timbuf = string_desc);
                                                         end:
```

UA

UAFMAIN V04-000 ; 3919			_time	- convert	time	e va	lue t	to st	ring	1	5 6-Sep-19 4-Sep-19	984 02:16 984 13:21	5:54 VAX-11 BLiss-32 V4.0-742 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B3	Page 146 2:1 (29)
												.PSECT	SPLITS, NOWRT, NOEXE, 2	
				29	65	6E	6F	6E	28	0084E	P.AFB:	.ASCII	\(none)\	3
												.EXTRN	SYSSASCTIM	
	50		50 50 20 50	08 00	5E 56 66 AC 6E AC		04 04 06	08 AC A6 106 000 BC 06	007C C2 D0 C9 12 C3 C1	00000 00002 00005 00009 00000E 00010 00015 0001A	CONVER	WORD SUBL2 MOVL BISL3 BNEQ SUBL3 MOVC5	\$CODE\$,NOWRT,2  Save R2,R3,R4,R5,R6 #8, SP TIME, R6 4(R6), (R6), R0 1\$ #6, LENGTH, R0 #0, (SP), #32, R0, aBUFFER  LENGTH, BUFFER, R0	3930 3973 3976 3977
		FA	50 A0	00000000e	6E 00		08	06 AC 7E 56 AE 7E 04	28 04 70 04 04 04 04	00022 0002B 0002C 00030 00032 00034 00037 00039	15:	ADDL3 MOVC3 RET MOVQ CLRL PUSHL PUSHAB CLRL CALLS RET	LENGTH, BUFFER, RO  #6, P.AFB, -6(RO)  LENGTH, STRING_DESC -(SP)  R6 STRING_DESC -(SP)  #4, SYS\$ASCTIM	3973 3982 3984 3986

Routine Base: \$CODE\$ + 21A7

; Routine Size: 65 bytes,

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page 147 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (30)
                     print_priv - print privilege bits
                               %sbttl 'print_priv - print privilege bits' routine print_priv (prvadr) : novalue =
                               begin
  1++
                                  FUNCTIONAL DESCRIPTION:
                                         Routine to output the names of the privilege bits set in the privilege vector supplied.
                                  INPUTS:
                                         PRVADR - Address of the privilege vector
                                  IMPLICIT INPUTS:
                                         PRV$AB_NAMES - table of privilege names and bit numbers
                                  OUTPUTS:
                                         none
                                  IMPLICIT OUTPUTS:
                                         none
                                  ROUTINE VALUE:
                                         none
                                  SIDE EFFECTS:
                                          none
                               local
                                          pointer.
                                                                                      current location in PRV$AB_NAMES
                                                                                      number of names in DISBUF
length of bit name string
minimum symbol length
value (bit number)
                                          prvent.
                                          symlen,
                                          symmin,
                                          symval:
                                  Initialize the buffer.
                                                                                   ! insert blank at start
                               disbuf = ' ':
                               prvcnt = 0;
rabptr[rab$w_rsz] = 1;
                               pointer = prvSab_names;
                                                                                   ! point to symbol name table
                               while (symmin = . (.pointer)<0.8>) neq 0 ! pick up min symbol size
                                    begin
```

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                            VAX-11 Bliss-32 V4.0-742 Page 148 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (30)
UAFMAIN
V04-000
                print_priv - print privilege bits
 Pick up the next bit name and number. If the bit is set, insert the bit name into the buffer. When the buffer fills up output them
                           to the user.
                             pointer = .pointer + 1
                            ! get name string length
                                                                   point to string
                                                                                             **
                                                                                             ...
                                                                                            ...
                             then
                                 begin
                           Bit is set. See if there's room in the buffer and insert it if so,
                           else output the buffer and start from scratch.
                                 if .rabptr[rab$w_rsz] + .symlen geg 64
                                 then
                                     begin
                                     $put (rab = .rabptr);
                                     prvcnt = 0;
rabptr[rab$w_rsz] = 1;
                                     end:
                           Insert a blank and append symbol name.
                                 end:
                                                                   ! update table pointer over name
                             pointer = .pointer + .symlen;
                             end:
                           Table used up. If anything is in the buffer, print it.
                         if .prvcnt gtr 0
then $put (rab = .rabptr);
  4031
                         end:
```

UAFMAIN VO4-000		pri	nt_p	riv	- pr	rint	pri	vile	ge bi	ts			1	N 5 6-Sep-19 4-Sep-19	984 02:16 984 13:21		Page 149 2;1 (30)
	00	00	00	45	00 44 00 00	45 41 00 00	44 52 40	41 47 4E	52 4E 4A	47 57 50 40	50 4F 40 52	55 44 54 50	00854 00850 00868 00870	P.AFC: P.AFD: P.AFE: P.AFF:	.ASCII .ASCII .ASCII .ASCII	<pre>\$PLIT\$,NOWRT,NOEXE,2  \UPGRADE\&lt;0&gt; \DOWNGRADE\&lt;0&gt;&lt;0&gt; \TMPJNL\&lt;0&gt;&lt;0&gt; \PRMJNL\&lt;0&gt;&lt;0&gt;</pre>	* * * * * * * * * * * * * * * * * * *
															.PSECT	\$CODE\$,NOWRT,2	
												OFFO	00000	PRINT_F			
					000	0000	001	00	00000	0000	20	00	00002		MORD MOVL CLRL MOVL	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 #32, DISBUF PRVCNT	3988 4035 4036 4037
						2	22	AO	00000		01	96 96 97	00012 00016 0001D	18:	MOVW MOVAB MOVZBL BNEQ	RABPTR, RO #1, 34(RO) PRV\$AB_NAMES, POINTER (POINTER), SYMMIN	4038 4040
				03			) i	5A 58 BC			0098 57 87 87	31 06 94	00022 00025 00027 0002A	28:	BRW INCL MOVZBL MOVZBL	2\$ 6\$ POINTER (POINTER)+, SYMVAL (POINTER)+, SYMLEN SYMVAL, APRVADR, 3\$	4050 4051 4053 4055
	07			00				67	00000		0082 58	20	00032 00035 0003A	38:	BBS BRW CMPC5	SYMLEN, (POINTER), WO, W7, P.AFC	4056
	09			00				67	00000		76 58	13	0003F 00041 00046		BEQL CMPC5	5\$ SYMLEN, (POINTER), NO, N9, P.AFD	4057
	06			00				67	00000		6A 58	13	0004B		BEQL CMPC5	5\$ SYMLEN, (POINTER), #0, #6, P.AFE	4058
	06			00				67	00000		5E 58	13	00057 00059		BEQL CMPC5	SYMLEN, (POINTER), #0, #6, P.AFF	4059
									00000		52	13 00 30 00	00052 00057 00059 00063 00065 00065 00078 00078 00078 00081 00088 00085 00085		BEQL MOVZWL ADDL2 CMPL BLEQ PUSHL CALLS CLRL MOVL MOVAB MOVZWL MO	S\$ RABPTR, RO 34(RO), R1 SYMLEN, R1 R1, #63	4068
					00/	20000	000	00			50	00	00078		PUSHL	43	4071
					000	00000	006	00	00000	10001	59	04	00081		CLRL	PRVCNT	4072 4073
						2	55	AO	00000		00 01 00 80	D0 B0 D0	0008A 0008E 00095	48:	MOVE MOVE MOVAB	RO #1. SYS\$PUT PRVCNT RABPTR. RO #1. 34(RO) RABPTR, RO 34(RO). R6 (R6). RO #32. DISBUF[RO] (R6) (R6). RO SYMLEN. (POINTER). DISBUF[RO] SYMLEN. (R6) PRVCNT	4080
					000	00000	00.0	040			96 96	30 90 86	00099 00090 000A4		MOVZWL MOVZWL	(R6), R0 #32, DISBUF[R0] (R6)	4081
	(	0000	0000	0040				50 67 66			66 58	30	000A6		MOVZWL MOVC3	(R6), RO SYMLEN, (POINTER), DISBUF[RO]	4081 4082
								66			58 59	AC De	000B2		ADDW2	SYMLEN. (R6) PRVCNT	4083 4084

UA VO

UAFMAIN VO4-000	print_priv -	print pri	vilege bi	ts		16	-Sep-1 -Sep-1	984 02:16 984 13:21	5:54 1:22	VAX-11 Bliss-32 V4.0-70 DISKSVMSMASTER: [UAF.SR	62 CJUAFMAIN.B32;1
		000000006	000000	FF60 59 000 00 01	0.5	000B7 000BA 000BD 000BF 000C1 000C7 000CE	65:	ADDL2 BRW TSTL BLEQ PUSHL CALLS RET	SYMLEN, 18 PRVCNT 78 RABPTR #1, SYS	, POINTER SSPUT	4
; Routine Size:	207 bytes.	Routine	Base: \$	CODES + 2	?1E8						

UAI VO4

; F

```
C 6
16-Sep-1984 02:16:54
build_ini_recs - build system & default records 14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Page 151 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (31)
                       4098
4099
4100
 %sbttl 'build_ini_recs - build system & default records'
routine build_ini_recs : novalue =
                                   begin
                        4101
                       4102
4103
4104
4105
4106
4107
                                      FUNCTIONAL DESCRIPTION:
                                               Build the initial records for the creation of a new UAF file. The user default record is built in the DEFAULT RECORD
                       4108
                                               buffer and the system manager record is built in RECBUF.
                        4110
                                      INPUTS:
                                               none
                                      IMPLICIT INPUTS:
                       4116
                                               none
                       4118
                                      OUTPUTS:
                                               none
                                      IMPLICIT OUTPUTS:
                                               default record is built in DEFAULT_RECORD system record is built in RECBUF
                          26
                                      ROUTINE VALUE:
                       4128
4129
4130
                                               none
                                      SIDE EFFECTS:
                                               none
                                   Local
                                               user_desc
                                                                      : $bblock [8]:
                                   ch$fill (0, uaf$c_fixed, default_record);
default_record[uaf$b_version] = uaf$c_version1;
default_record[uaf$b_rtype] = uaf$c_user_id;
                                      username is blank filled
                                   ch$copy (.defuser<0,8>, defuser+1, %char (' '),
                                                uaf$s_username, default_record[uaf$t_username]);
                        4150
                                      account name is blank filled
                                   ch$copy (.defact<0.8>, defact+1, %char (' '),
     uaf$s_account, default_record[uaf$t_account]);
```

UAI

```
VAX-11 Bliss-32 V4.0-742 Pa
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
UAFMAIN
VO4-000
                                                         16-Sep-1984 02:16:54 build_ini_recs - build system & default records 14-Sep-1984 13:21:22
                                                         4155
4156
4157
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4159
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4093
4094
4096
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4098
4100
4101
4102
4103
4104
4107
4108
4109
4110
                                                                                            quadword privilege mask
                                                         4160
                                                                                     ch$move (8, defpriv, default_record[uaf$q_priv]);
ch$move (8, defpriv, default_record[uaf$q_def_priv]);
                                                         4161
4162
4163
                                                         4164
4165
4166
4167
4168
4169
4170
                                                                                           directory name is counted string
                                                                                     ch$copy (.defdir<0,8> + 1, defdir, %char (' ')
                                                                                                                    uaf$s_defdir, default_record[uaf$t_defdir]);
                                                                                            device name is counted string
                                                         4172
4173
4174
4175
4176
4177
                                                                                     ch$copy (.defdev<0,8> + 1, defdev, %char (' '),
                                                                                                                    uaf$s_defdev, default_record[uaf$t_defdev]);
      41134
411167
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411
                                                                                            CLI name is counted string
                                                         4180
4181
4182
4183
                                                                                     ch$copy (.defcli<0.8> + 1, defcli, %char (' '),
                                                                                                                    uaf$s_defcli, default_record[uaf$t_defcli]);
                                                         4184
                                                                                            owner name is counted string
                                                         4186
                                                                                     ch$copy (.defouner<0.8> + 1, defouner, %char (' '),
                                                         4189
                                                                                                                    uaf$s_owner, default_record[uaf$t_owner]);
                                                         4190
                                                         4191
4192
4193
4194
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4196
4197
                                                                                            login command file name is counted string
                                                                                     ch$copy (.deflgicmd<0.8> + 1, deflgicmd, %char (' '),
                                                                                                                    uaf$s_lgicmd, default_record[uaf$t_lgicmd]);
                                                         4198
                                                                                      ! fill in default CLI tables
                                                         4200
4201
4202
4203
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4210
                                                                                     ch$copy (.defclitabl<0,8> + 1, defclitabl, %char (' '),
                                                                                                                    uaf$s_clitables, default_record[uaf$t_clitables]);
                                                                                   ch$move (8, defpwdlife, default_record[uaf$q_pwd_lifetime]);
default_record[uaf$b_pwd_length] = defpwdlength;
default_record[uaf$w_grp] = defgrp;
default_record[uaf$w_mem] = defmem;
default_record[uaf$w_biolm] = defbiolm;
default_record[uaf$w_diolm] = defdiolm;
default_record[uaf$w_diolm] = defdiolm;
default_record[uaf$w_fillm] = deffillm;
```

```
build_ini_recs - build system & default records 14-Sep-1984 02:16:54
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 153 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (31)
                                                                                                                                             default record[uaf$l flags] = defflags;

default record[uaf$w tqcnt] = deftqcnt;

default record[uaf$w prccnt] = defwsquota;

default record[uaf$l wsquota] = defwsquota;

default record[uaf$l wsextent] = defwsextent;

default record[uaf$l dfwscnt] = defdfwscnt;

default record[uaf$l cputim] = deffdfwscnt;

default record[uaf$l pytim] = defaytim;

default record[uaf$w enqlm] = defpgflquota;

default record[uaf$w enqlm] = defpytim;

default record[uaf$w shrfillm] = defshrfillm;

default record[uaf$w shrfillm] = defshrfillm;

default record[uaf$w maxjobs] = defmaxjobs;

default record[uaf$w maxjobs] = defmaxdetach;

default record[uaf$w maxjobs] = defmaxdetach;

default record[uaf$w maxacctjobs] = defmaxacctjobs;

default record[uaf$b primedays] = defprimedays;

default record[uaf$b hetwork_access_p] = defhours;

default record[uaf$b hetwork_access_s] = defhours;

default record[uaf$b local_access_s] = defhours;

default record[uaf$b remote_access_s] = defhours;
         4240
4241
4242
4243
                                                                                                                                              pwddsc[dsc$w_length] = .syspass<0,8>;
pwddsc[dsc$a_pointer] = syspass+1;
user_desc[dsc$w_length] = .sysuser<0,8>;
                                                                                                                                                       user_desc[dsc$a_pointer] = sysuser+1;
$gettim (timadr = time_buf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ! Obtain a 16 bit salt
```

```
UAFMAIN
VO4-000
                                                                                      build_ini_recs - build system & default records 14-Sep-1984 02:16:54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                                                                                                                                  recbufluaf$w_salt], user_desc);

ch$move (8, syspwdlife, recbufluaf$q_pwd_lifetime]);

recbufluaf$b_pwd_length] = syspwdlength;

recbufluaf$w_grp] = sysgrp;

recbufluaf$w_meml = sysmem;

recbufluaf$w_biolm] = sysbiolm;

recbufluaf$w_diolm] = sysbiolm;

recbufluaf$w_diolm] = sysbiolm;

recbufluaf$w_diolm] = sysfilm;

recbufluaf$w_fillm] = sysfilm;

recbufluaf$w_forcnt] = sysprccnt;

recbufluaf$w_mprccnt] = sysprccnt;

recbufluaf$w_wprccnt] = syswsquota;

recbufluaf$l_wsquota] = syswsquota;

recbufluaf$l_wsquota] = sysseputim;

recbufluaf$l_wsquota] = syssptim;

recbufluaf$l_optim] = syssptim;

recbufluaf$l_optim] = syssptim;

recbufluaf$w_enqim] = syssptim;

recbufluaf$w_enqim] = syssptim;

recbufluaf$w_enqim] = syssptim;

recbufluaf$w_shrfillm] = sysshrfilm;

recbufluaf$w_shrfillm] = sysshrfilm;

recbufluaf$w_shrfillm] = sysspri;

default_record[uaf$b_quepri] = sysquepri;

recbufluaf$w_maxdetach] = sysmaxdetach;

recbufluaf$w_maxdetach] = sysmaxdetach;

recbufluaf$w_maxdetach] = sysmaxsectjobs;

recbufluaf$b_network_access_p] = defhours;

recbufluaf$b_network_access_p] = defhours;

recbufluaf$b_local_access_p] = defhours;

recbufluaf$b_local_access_p] = defhours;

recbufluaf$b_local_access_p] = defhours;

recbufluaf$b_dialup_access_p] = defhours;

recbufluaf$b_dialup_access_p] = defhours;

recbufluaf$b_remote_access_p] = defhours;
                                                                                                                                 recbuf[uaf$b_remote_access_s] = defhours;
                                                                                                                                 end:
                                                                                                                                                                                                                                                                                                        O3FC 00000 BUILD_INI RECS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Save R2,R3,R4,R5,R6,R7,R8,R9
DEFACT+1, R9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4099
                                                                                                                                                                                                                                  000000000
                                                                                                                                                                                                                                                                                             000008008
                                                                                                                                                                                                                                                                                                                   9E 9E 22
                                                                                                                                                                                                                                                                                                                                                                                                                MOVAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFAULT_RECORD, R8
RECBUF, R7
                                                                                                                                                                                                                                                                                                                                                                                                                MOVAB
                                                                                                                                                                                                                                                                                                                                                                                                                MOVAB
                                                                                                                                                                                                                                                                                                                                                                                                               SUBL 2
MOVC 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                          #8. SP
#0, (SP), #0, #644, DEFAULT_RECORD
```

0284

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UA VO

UAFMAIN V04-000		build_ii	ni_recs	- build	system	& default	records	16-Sep-1984 02:16 14-Sep-1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 Page DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1	e 155 (31)
	20		20	E9	68 50 A9	0101 8F E8 A9 50 04 A8	BO 0002 9A 0002 2C 0002	2 MOVW 7 MOVZBL B MOVC5	#257, DEFAULT_RECORD DEFUSER, RO RO, DEFUSER+1, #32, #32, DEFAULT_RECORD+4	4141 4146 4147
	20		20		50 69	04 A8 FF A9 50 34 A8	9A 000 2C 000	MOVZBL MOVC5	DEFACT, RO RO, DEFACT+1, #32, #32, DEFAULT_RECORD+52	4153 4154
		019C 01A4	C8	10	A9 A9 50	08 08 06 A9	28 0004 28 0004 9A 0004	MOVC3 MOVC3 MOVZBL	#8. DEFPRIV. DEFAULT_RECORD+412 #8. DEFPRIV. DEFAULT_RECORD+420 DEFDIR, RO	4160 4161 4167
0040	BF		20	06	A9	0094 C8	2C 0005	2 INCL MOVC5	RO, DEFDIR, #32, #64, DEFAULT_RECORD+148	4168
	20		20	OD	50 A9	0D A9 50 50	9A 0005 06 0006 2C 0006	D MOVZBL INCL MOVC5	DEFDEV, RO RO RO, DEFDEV, #32, #32, DEFAULT_RECORD+116	4174
					50	74 A8 69 50	9A 0006 06 0006	B MOVZBL E INCL	DEFCLI, RO	4181
	20		20		69 50	0114 C8 04 A9	2C 0007 0007 9A 0007		RO, DEFCLI, #32, #32, DEFAULT_RECORD+276  DEFOWNER, RO	4182
	20		20	04	A9	50 50 54 05 A9	D6 0007 2C 0007 0008	MOVC5	RO, DEFOWNER, #32, #32, DEFAULT_RECORD+84	4189
0040	BF		20	05	50 A9	50	9A 0008 06 0008 2C 0008	INCL	DEFLGICMD, RO RO RO, DEFLGICMD, #32, #64, DEFAULT_RECORD+212	4195
					50	00D4 C8 F5 A9 50	9A 0009 D6 0009	7 MOVZBL	DEFCLITABL, RO	4201
	20	0174	20	F5	A9	0134 08	2C 0009 000A 28 000A	moves	RO, DEFCLITABL, #32, #32, - DEFAULT RECORD+308	4202
		0174	Ç0	016A 24 0230 020E	A9 C8 A8 0080 C8 C8 0000	06 00080 8F 1000 8F 60006 8F 01D4 C8		MOVC3 D MOVB MOVL MOVZWL MOVL MOVL	#6, DEFAULT RECORD+362 #8388736, DEFAULT RECORD+36 #4096, DEFAULT RECORD+560 #393222, DEFAULT RECORD+526	4205 4207 4209 4208
				020C 021C 0224 0220	C8 C8	02 C8 8F 01F4 8F 96 8F	9A 0000 9A 0000 9A 000E	A CLRL E MOVW 3 MOVZBL 9 MOVZBL 0 MOVZBL	#2, DEFAULT RECORD+524 #200, DEFAULT RECORD+540 #500, DEFAULT RECORD+548 #150, DEFAULT RECORD+544	4214 4215 4216 4217 4217
				0212 0228 0216	C8 000/ C8 001/	022C C8 A000A 8F 2710 8F 4000A 8F 0234 C8 021A C8 0404 8F 0400 8F 0208 C8 60 8F	04 000E 00 000F 3C 000F 00 000F 04 0010	6 CLRL A MOVL 3 MOVZWL A MOVL CLRL	#655370. DEFAULT RECORD+530 #10000, DEFAULT RECORD+552 #1310730, DEFAULT RECORD+534 DEFAULT RECORD+564	4213 4220 4221 4222
				0204 0238	C8 C8	0404 8F 0400 8F	3C 0011	A MOVL 3 CLRL 7 CLRW 8 MOVZWL 2 MOVZWL 9 CLRL	#1028, DEFAULT_RECORD+516 #1024, DEFAULT_RECORD+568 DEFAULT_RECORD+520	4224
01D8 01D8 01DE 01E1	C8 C8 C8		18 18 18	0202	C 8 00 00 00 00	00080 8F 1000 8F 60006 8F 01D4 C8 02 C8 8F 01F4 8F 022C C8 A000A 8F 2710 8F 4000A 8F 0234 C8 021A C8 021A C8 0404 8F 0208 C8	3C 0010 3C 0011 90 0011 F0 0012 F0 0013	MOVB INSV INSV INSV INSV INSV	DEFAULT RECORD+308  #8, DEFPWDLIFE, DEFAULT_RECORD+372  #6, DEFAULT RECORD+362  #8388736, DEFAULT RECORD+36  #4096, DEFAULT RECORD+560  #393222, DEFAULT RECORD+526  DEFAULT RECORD+468  #2, DEFAULT RECORD+524  #200, DEFAULT RECORD+540  #500, DEFAULT RECORD+548  #150, DEFAULT RECORD+548  #150, DEFAULT RECORD+544  DEFAULT RECORD+556  #655370, DEFAULT RECORD+530  #10000, DEFAULT RECORD+532  #1310730, DEFAULT RECORD+534  DEFAULT RECORD+568  DEFAULT RECORD+568  DEFAULT RECORD+568  DEFAULT RECORD+568  DEFAULT RECORD+514  #0, #0, #24, DEFAULT RECORD+472  #0, #0, #24, DEFAULT RECORD+478  #0, #0, #24, DEFAULT RECORD+478  #0, #0, #24, DEFAULT RECORD+481	4205 4207 4207 4208 4214 4215 4212 4222 4222 4222 4222 4222

UAFMAIN V04-000		build_fi	ni_re	ecs - build	syste	m & defaul	lt	records 1	6 5-Sep-1984 02:16 6-Sep-1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 Pa :22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1	ge 156 (31)
01E4 01E7 01EA 01ED 01F0 01F3 0284	C8 C8 C8 C8 C8		18 18 18 18 18 00		00 00 00 00 00 00 6E		00	FO 0013F FO 00146 FO 00154 FO 00158 FO 00162 2C 00169	INSV INSV INSV INSV INSV MOVC5	#0, #0, #24, DEFAULT_RECORD+484 #0, #0, #24, DEFAULT_RECORD+487 #0, #0, #24, DEFAULT_RECORD+490 #0, #0, #24, DEFAULT_RECORD+493 #0, #0, #24, DEFAULT_RECORD+496 #0, #0, #24, DEFAULT_RECORD+499 #0, (SP), #0, #644, RECBUF	4235 4236 4237 4238 4239 4240
	20		20	21	67 56 A9	0101 20	8 F 8 G	BO 00171 9A 00176 2C 0017A	MOVW MOVZBL MOVC5	#257, RECBUF SYSUSER, R6 R6, SYSUSER+1, #32, #32, RECBUF+4	4244 4245 4246
	20		20	3A	50 A9		19 50	9A 00182 2C 00186	MOVZBL MOVC5	SYSACT, RO RO, SYSACT+1, #32, #32, RECBUF+52	4247 4248
		019C 01A4	C7 C7	60 60	A9 A9 50	34 54	08	28 0018E 28 00195 9A 0019C	MOVC3 MOVC3 MOVZBL INCL MOVC5	#8, SYSPRIV, RECBUF+412 #8, SYSPRIV, RECBUF+420 SYSDIR, RO	4249 4250 4251
0040	8F		20	54	A9	0094	50	2C 001A2 001AA		RO, SYSDIR, #32, #64, RECBUF+148	4252
	20		20	50	50 A9	5D (	A 9 5 0 5 0	9A 001AD 06 001B1 2C 001B3	MOVZBL INCL MOVC5	SYSDEV, RO RO RO, SYSDEV, #32, #32, RECBUF+116	4253 4254
					50	74	17	9A 001BB	MOV2BL	SYSCLI. RO	4255
	20		20	40	A9	0114	50	D6 001BF 2C 001C1 001C7	INCL MOVC5	RO, SYSCLI, #32, #32, RECBUF+276	4256
					50	0114	50	9A 001CA	MOVZBL	SYSOWNER, RO	4257
	20		20	44	A9	54	17	00106	MOVC5	RO RO, SYSOWNER, #32, #32, RECBUF+84	4258
0040	8 F		20	05	50 A9		50	9A 001D8 D6 001DC 2C 001DE	INCL MOVCS	SYSLGICMD, RO RO RO, DEFLGICMD, #32, #64, RECBUF+212	4259 4260
0040	01		20	0,	50	00D4 0	7	9A 001E9	MOVZBL	SYSCLITABL, RO	4261
	20		20	2F	A9		50	9A 001E9 D6 001ED 2C 001EF 001F5	INCL MOVC5	RO RO, SYSCLITABL, #32, #32, RECBUF+308	4262
				0584 0588	C8 C8 6E	0134 27 28	7 19 19 19	9B 001F8 9E 001FE B0 00204 9E 00207 9F 0020C	MOVZBU	SYSPASS, PWDDSC SYSPASS+1, PWDDSC+4 R6, USER_DESC SYSUSER+T, USER_DESC+4 TIME_BUF #1, SYSSGETTIM TIME_BUF+3, RECBUF+358 #2, RECBUF+360 SP	4264 4265 4266 4267 4268
				04	AĒ	0670	19	41 0050C	MOVAB	SYSUSER+T, USER_DESC+4 TIME_BUF	4267
				00000000G 0166 0168	00 C7 C7	0673	)1 [7 ]2	FB 00210 B0 00217 90 0021E	MOVW MOVB	#1, SYS\$GETTIM TIME_BUF+3, RECBUF+358 #2, RECBUF+360	•
					7E 7E	0166 0168 0584 0084	7 8	DD 00223 3C 00225 9A 0022A 9F 0023F 9F 00233 FB 00237	MOVUMOVAB PUSHAB CALLS MOVUMOVB PUSHL MOVZUL MOVZBL PUSHAB PUSHAB CALLS MOVC3 MOVB	SP RECBUF+358, -(SP) RECBUF+360, -(SP) PWDDSC REC ENCRYPT DSC	4269 4270 4271 4272 4271
		0174	<b>c7</b>	00000000G 68 016A	00 A9 C7	0084	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	FB 00237 28 0023E 90 00245	CALLS MOVES MOVE	RECBUF+358(SP) RECBUF+360, -(SP) PWDDSC REC_ENCRYPT_DSC #5. LGI\$HPWD #8. SYSPWDLIFE. RECBUF+372 #8. RECBUF+362	4274 4275

UA VO

04-000		build_ini_recs	24 0230 020E	A7 00010004 C7 5000	8F	00 0024A 30 00252	MOVZWL	#65540 #20480	AX-11 Bliss-32 v4.0-742 DISKSVMSMASTER: CUAF.SRCJUAFMAIN.B32 RECBUF+36 RECBUF+560	Page 15 :1 (31) : 427 : 427
			0212 020A 021C 0224 0220	C7 000C000C 01D4 C7 00140014 C7 000A0000 C7 015E C7 0400	8F C8F 8F 8F	DO 00259 04 00262 DO 00266 DO 0026F 3C 00278 3C 0027F	MOVL CLRL MOVZWL MOVZWL MOVZWL MOVZWL MOVZWL CLRL MOVB MOVB MOVB MOVB MOVB INSV INSV	RECBUF+ #131074 #655360 #350 R	RECBUF+36 RECBUF+526 468 0. RECBUF+530 RECBUF+542 RECBUF+548 RECBUF+548 RECBUF+544 556 RECBUF+552 RECBUF+534 540 541 552 RECBUF+534 553 RECBUF+534 554 805 805 805 805 805 805 805 805	428: 428: 428: 429: 428:
			0220 0228 0216	C7 022C C7 2710 C7 00140014 0234 021A	8F C7 8F C7	9A 00286 04 0028C 3C 00290 00 00297 04 002A0	MOVŽBL CLRL MOVŽWL MOVL CLRL	#150, R RECBUF+ #10000 #131074 RECBUF+	RECBUF +544 556 RECBUF +552 0 RECBUF +534	428 428 429 429 429
			0204 0205 0238	<b>C7</b>	C7 04 04 8F C7	90 002A8 90 002AD 3C 002B2 B4 002B9	MOVB MOVB MOVZWL CLRW	RECBUF + M4. REC M4. DEF M1024 RECBUF +	538 BUF+516 AULT RECORD+517 RECBUF+568 522 518 CBUF+514	429 429 429 429
01D8 01DB 01DE 01E1 01E4 01E7	C7 C7 C7 C7	18 18 18 18	0202	C7 60 00 00 00 00 00 00 00 00 00 00 00 00	8F 000 000 000 000 000 000 000	04 002BD 90 002C1 F0 002C7 F0 002CE F0 002D5 F0 002DC F0 002EA	MOVB INSV INSV INSV INSV INSV INSV INSV	#96, RE	CBUF +514 #24  RECBUF +472 #24  RECBUF +475 #24  RECBUF +478 #24  RECBUF +481 #24  RECBUF +484 #24  RECBUF +487 #24  RECBUF +490	428: 428: 428: 428: 429: 429: 429: 429: 429: 429: 429: 430: 430: 430: 430: 430: 430: 430: 430
01E4 01E7 01EA 01ED 01F0 01F3	C7 C7 C7 C7	18 18 18		00 00	00	FO 002F8 FO 002FF FO 00306 04 0030D	INSV INSV INSV RET	#0. #0. #0. #0.	#24. RECBUF +493 #24. RECBUF +496 #24. RECBUF +499	430 431 431 431

; Routine Size: 782 bytes. Routine Base: \$CODE\$ + 22B7

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```
UAFMAIN
VO4-000
                         get_user_record - get username and lookup recor 14-Sep-1984 02:16:54
                                                                                                                                              VAX-11 Bliss-32 V4.0-742 PADISKSVMSMASTER: EUAF. SRCJUAFMAIN. B32;1
                                                                                                                                                                                                        Page 158
1 (32)
                                      % Tsbttl 'get_user_record - get username and lookup record'
routine get_user_record (lock_record, permanent_ok) =
                                       begin
                                          FUNCTIONAL DESCRIPTION:
                                                   This routine pulls the next token out of the command buffer, assuming it is the username, and looks up the UAF record for that name. If the record is found, it is loaded into RECBUF (by routine LOCATE_USER).
                                          INPUTS:
                                                   LOCK_RECORD - specifies that the GET shall lock the record PERMANENT_OK - specifies that the DEFAULT and SYSTEM records are allowed
                                          IMPLICIT INPUTS:
                                                   TOKENPTR - address of delimiter following last token processed,
                                                   which was the command name.

TOKENLEN - global variable to contain length of current token
                                          OUTPUTS:
                                                   none
                                          IMPLICIT OUTPUTS:
                                                   none
                                          ROUTINE VALUE:
                                                   true -> user record found false -> user record not found
                                          SIDE EFFECTS:
                                                   none
                                       builtin
                                                   nullparameter;
                                         Is this the second phase of a RENAME?
                                       if .rename_ph2
                                       then
                                             begin
                                             if .netuaf_exists
then adjust_proxy (update_records);
ch$move (.olduserlen, oldusername, .tokenptr);
                                             tokenlen = .olduserlen;
rename_ph2 = false;
                                             end
```

VC

```
UAFMAIN
VO4-000
                    get_user_record - get username and lookup recor 14-Sep-1984 02:16:54
                                                                                                                   VAX-11 Bliss-32 V4.0-742 Page 159 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (32)
                                  Not the second phase of a RENAME. Get first token, and if this is the first phase of a RENAME (COPY phase), save token for the second phase (REMOVE phase).
                                    begin
                                 Get token
                                         if not cli$present (sd_token1)
or not cli$get_value (sd_token1,tokendsc)
or .tokenlen egi 0
                                          then return LIB$SIGNAL(UAF$_NOUSERNAME);
                                 If the third argument is present, this is the first phase of a RENAME, so save the token for the next call
                                          if not nullparameter (3)
                                          then
                                              ch$copy (.tokenlen, .tokenptr, ' ', uaf$s_username, oldusername);
olduserlen = .tokenlen;
rename_ph2 = true;
                                               end:
                                         end:
                               if not .permanent_ok
                               then
                                     if ch$eql (.defuser<0,8>, defuser+1, .tokenlen, .tokenptr, ' ')
                                          if nullparameter (3)
                                              return LIB$SIGNAL (UAF$ REMDEF)
                                              return LIB$SIGNAL (UAF$_RENDEF);
                                    if ch$eql (.sysuser<0,8>, sysuser+1, .tokenlen, .tokenptr, ' ')
                                          begin
                                          if nullparameter (3)
                                              return LIB$SIGNAL (UAF$_REMSYS)
                                               return LIB$SIGNAL (UAF$_RENSYS);
                                          end:
                                    end:
                               if locate_user (.tokenlen, .tokenptr, .lock_record)
                               then return true;
                               if .rmserr eql rms%_rnf
                                    LIB$SIGNAL(UAF$_BADUSR, 2, .tokenlen, .tokenptr)
                                    LIB$SIGNAL(UAF$_GETERR, 0, .rmserr);
```

UAFMAIN VO4-000	get_user_re	ecord - get	usernam	ne and l	ookup recor	6-Sep- 4-Sep-	1984 02:16 1984 13:21	:54 VAX-11 Bliss-32 V4.0-742 :22 DISKSVMSMASTER:[UAF.SRC]UAFMAIN.E	Page 160 332;1 (32)
; 4363 ; 4364	4427 2 fal 4428 1 end	lse i;							
					07FC 0000	GET_U	SER_RECORD	):	
			5A 000 59 000 58 000 57 000	000000	00 9E 0000 00 9E 0000 00 9E 0001 00 9E 0001	_	MOVAB MOVAB MOVAB MOVAB BLBC CALLS MOVL MOVU CLRB BRB PUSHL CALLS BLBC PUSHL CALLS BLBC TSTW	Save R2,R3,R4,R5,R6,R7,R8,R9,R10 LIB\$SIGNAL, R10 SD TOKEN1, R9 RENAME PH2, R8 TOKENLEN, R7 RENAME PH2, 28 NETUAF_EXISTS, 18 -(SP)	4314
			07	10	68 E9 0001 A7 E9 0002 7E D4 0002		BLBC BLBC CLRL	RENAME PH2 28 NETUAF EXISTS, 18 -(SP)	4361 4364 4365
		E796	CF 56 50 A8 67	04	01 FB 0002 A8 D0 0002 A7 D0 0003 56 28 0003 56 B0 0003	1\$:	MOVL MOVL	#1, ADJUST_PROXY OLDUSERLEN, R6 TOKENPIR, R0	4366
	60	08	67		56 B0 0003 68 94 0003 45 11 0003		MOVC3 MOVW CLRB	M1 ADJUST_PROXY OLDUSERLEN, R6 TOKENPTR, R0 R6, OLDUSERNAME, (R0) R6, TOKENLEN RENAME_PH2 5\$	4367 4368 4361 4380
		00000000	00		59 DD 0004 01 FB 0004 50 E9 0004	2\$:	PUSHL CALLS BLBC	R9 W1, CLISPRESENT R0, 3\$ R7	4380
		000000006	00		59 DD 0004 02 FB 0005 50 F9 0005		PUSHL CALLS BLBC	R9 #2. CLISGET_VALUE R0. 3\$	
			000	000006	08 12 0005 8F DD 0005	38:	BNEQ	TOKENLEN 48 WUAFS_NOUSERNAME	4382 4383
			03	ОС	78 11 0006 6C 91 0006 1A 1F 0006 AC D5 0006	38: 48:	BRB CMPB BLSSU TSTL BEQL MOVZWL	118 (AP), #3 58 12(AP)	4388
20	20		56 50 60	04	AC D5 0006 15 13 0006 67 3C 0007 A7 D0 0007 56 2C 0007		MOVZWL MOVL MOVCS	TOKENLEN, R6 TOKENPTR, R0 R6, (R0), #32, #32, OLDUSERNAME	4391
		04	A8 68 50 51 50	08 0118 04	A8 0007 56 D0 0007 01 90 0008 AC E8 0008 C9 9A 0008 A7 D0 0008 51 2D 0009 60 0009	58:	MOVL MOVB BLBS MOVZBL	R6. OLDUSERLEN #1. RENAME PH2 PERMANENT OK, 12\$ DEFUSER, R1 TOKENPTR, RO R1, DEFUSER+1, #32, TOKENLEN, (RO)	4392 4393 4397 4400
67	20	0119	50	04	A7 D0 0008 51 2D 0009 60 0009		MOVL CMPC5	TOKENPTR, RO R1, DEFUSER+1, #32, TOKENLEN, (RO)	

0009A 0009C 0009F 000A1 000A4 000A6

DD

BNEQ CMPB BLSSU TSTL BNEQ PUSHL BRB PUSHL

8\$ (AP), #3 6\$ 12(AP) 7\$

WUAFS\_REMDEF

VO

- 1	
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ł	V
-1	
- 1	

67	20	)	0151	51 50 C9	0150	2B C9 A7	11 9A 00 20	00084 00086 00088 0008F	8\$:	BRB MOVZBL MOVL CMPC5	11\$ SYSUSER, R1 TOKENPTR, R0 R1, SYSUSER+1, #32, TOKENLEN, (R0)	4408
O1				03	00	60 10 60 60 60 60 60	12 91 15 15	000C6 000C7 000C9 000CC 000CE		BNEQ CMPB BLSSU TSTL	128 (AP), #3 98 12(AP)	4411
					000000006	8F	12 00	000D1 000D3 000D9	98:	PUSHL	#UAF\$_REMSYS	4413
				6A	00000000G	8F 06 8F 01	DD FB	0000B	108:	BRB PUSHL CALLS	11\$ WUAF\$ RENSYS #1, LIB\$SIGNAL	4415
		0000	0000v	7E 00 04 50	04	AC A7 67 03 50	04 00 00 00 00 00 00 00 00 00 00 00 00 0	000E4 000E8 000EB 000EE 000F5	12\$:	RET PUSHL PUSHL MOVZWL CALLS BLBC MOVL	LOCK RECORD TOKENPTR TOKENLEN, -(SP) #3, LOCATE_USER R0, 13\$ #1, R0	4419 4420
		0001	82B2	50 8F	18	A7	00	000FB 000FC 00100	138:	RET MOVL CMPL	RMSERR, RO RO, #98994 14\$	4422
				7E	04	A7 50 13 A7 67	12 DD 30	00107 00109 0010C		BNEQ PUSHL MOVZUL PUSHL	TOKENPTR TOKENLEN, -(SP)	4424
				6A	0000000G	67 02 8F 04 00 50	DD DD FB	0010F 00111 00117 0011A		PUSHL CALLS BRB	WUAF\$ BADUSR W4 LIB\$SIGNAL 15\$	
					000000006	50 7E 8F 03 50	00	0011C	148:	PUSHL CLRL PUSHL CALLS	RO -(SP)	4426
				6A		03 50	FB 04	00120 00126 00129 0012B	15\$:	CALLS CLRL RET	#UAF\$ GETERR #3, LIB\$SIGNAL RO	4428

; Routine Size: 300 bytes. Routine Base: \$CODE\$ + 25C5

```
UAFMAIN
VO4-000
                                                                                           16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                             VAX-11 Bliss-32 V4.0-742 Pa
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                       locate_user - lookup user record in UAF
                                  %sbttl 'locate_user - lookup user record in UAF'
routine locate_user (size, buffer, lock_record) =
                                  begin
                                    FUNCTIONAL DESCRIPTION:
                                             Routine to locate a user record in the UAF file.
                                     INPUTS:
                                             SIZE - size of the username string
BUFFER - address of the username string
LOCK_RECORD - specifies that the GET shall lock the record
                                     IMPLICIT INPUTS:
                                             UAFRAB - RMS data structure for SYSUAF.DAT
                                     OUTPUTS:
                                             none
                                     IMPLICIT OUTPUTS:
                                             If record is found, RECBUF contains the located record.
                                     ROUTINE VALUE:
                                             true -> record found false -> record not found
                                    SIDE EFFECTS:
                                             none
                                  Local
                                             found:
                                                                                                      ! record found indicator
                                  found = true:
                                                                                                       ! assume record was found
                                  ch$copy (.size, .buffer, %char (' '),
     uaf$s_username, recbuf[uaf$t_username]);
                                  if .lock_record
then uafrab[rab$l_rop] = rab$m_rlk
else uafrab[rab$l_rop] = rab$m_rrl or rab$m_nlk;
                                  if not (rmserr = get_uaf_record ())
then found = false;
                                                                                                      ! return indicator
                                  return . found;
                                  end:
```

MOVL BLBS CLRL

MOVL RET

FOUND, RO

UA!

4480 4482 4483

; Routine Size: 63 bytes, Routine Base: \$CODE\$ + 26F1

```
UAFMAIN
                     get_uaf_record - routine to deal with record to 14-Sep-1984 02:16:54
                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 164 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (34)
V04-000
                     4484
4485
4486
4487
                                %sbttl 'get_uaf_record - routine to deal with record locking' routine get_uaf_record =
  4423
4423
44225
44226
789
74423
789
74443
74443
74443
74443
74443
74443
74443
74443
74443
                                begin
                                 144
                                   FUNCTIONAL DESCRIPTION:
                     4492
4493
4494
4495
4497
4498
4501
4502
4503
4504
4505
4506
4507
                                           A common routine to GET records from SYSUAF.DAT, deal with retries
                                           when the record is locked.
                                   INPUTS:
                                           none
                                   IMPLICIT INPUTS:
                                           UAFRAB - RMS data structure for SYSUAF.DAT
                                   OUTPUTS:
  4443
                                           none
  4444
  4445
                                   IMPLICIT OUTPUTS:
                     4508
4509
4510
  4447
                                           RECBUF - The user's record
  4448
  4449
                                   ROUTINE VALUE:
  4450
4451
4452
4453
4454
4457
4458
4459
                                           RMS status code
                                  SIDE EFFECTS:
                        16
                                           none
                                Local
                                           counter.
                                                                                      ! number of retries remaining
                                           success;
  4461
  4462
                     4524
4525
4526
4527
4528
4530
4531
4533
4533
4535
                                   If anybody's record is locked it shouldn't remain that way for long.
  4464
                                  Also, ignore the special system password record.
  4465
4466
4467
4468
                               4469
4470
4471
                                do
                                     if $schdwk (daytim = wakedelta) then $hiber;
                                . SUCCESS
                                end:
```

																	.PSECT	\$PLIT\$, NOWRT, NOEXE, 2	
72	6f	77	73	73	61	50	2B	60	65	74 00	73 00	79 00	53 3E	3C 64	00878 00887	P.AFG:	.ASCII	\ <system+password>\&lt;0&gt;&lt;0&gt;&lt;0&gt;</system+password>	•
																	.PSECT	\$CODE\$, NOWRT, 2	
														003C	00000	GET_UAF	_RECORD:	Save R2.R3.R4.R5	: 448
											00000	000	08 00 01	9F	00002	18:	RECORD: .WORD MOVL PUSHAB	#8, COUNTER UAFRAB	: 448 : 452 : 453
								182A		00 55 8F			50 55	18	OOOOR		CALLS MOVL CMPL	Save R2,R3,R4,R5 #8, COUNTER UAFRAB #1, SYS\$GET R0, SUCCESS SUCCESS, #98986	
			11			20	000			00			10	13	00010		BEQL CMPC5	28 #32, RECBUF+4, #32, #17, P.AFG	453
										(	00000	000	20021	12	00027 0002C	24	BNEQ	35 COUNTER	
													10 75	D7 19 D4	0002E 00030 00032	28:	BLSS CLRL PUSHAB	35	453
										(	00000	000	1D 7E 00 7E	9F 7C	00034 0003A		PUSHAB	-(SP) WAKEDELTA -(SP)	, 473
								0000		00 BF			50	FB E9	0003C		CLRQ CALLS BLBC CALLS	#4, SYS\$SCHDWK RO, 1\$	•
							000	0000	006	50			04 50 00 86 55	FB 11 00	0004D 0004F		BRB	#0, SYS\$HIBER 1\$ SUCCESS, RO	453
	outir		,	0.7										04	00052		RET		•

UA VO

```
UAFMAIN
VO4-000
                                                                                                16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                        get_cmd_line - input user command line
                                    %sbttl 'get_cmd_line - input user command line' routine get_cmd_line =
  4478
4480
4481
4483
4483
4486
4488
4488
4489
4490
                                    begin
                                       FUNCTIONAL DESCRIPTION:
                                               This routine reads in the command line from the user, reading additional lines if continuation is specified by a '-' as the last character on the input line.

A zero byte is inserted following the last input character read.
                                       INPUTS:
   4492
                                               none
  4494
                                       IMPLICIT INPUTS:
  4496
                                                CMDBUF - buffer to receive the user's command line
   4498
                                                CMDBUFLEN - literal length of CMDBUF
  4499
                                       OUTPUTS:
  4501
4502
4503
                                               none
  4504
4505
4506
4507
4508
4509
4510
                                       IMPLICIT OUTPUTS:
                                               CMDBUF is filled with command line
                                       ROUTINE VALUE:
                                               none
                                       SIDE EFFECTS:
                                                none
                                    map
                                                cmdlindsc: vector;
                                    local
                                                                                                index into CMDBUF remaining buffer length
                                               ptr
buflen:
                                       Prompt with normal prompt string until some input is supplied.
                                          ask (accprmpt, cmdbuf[0], cmdbuflen)
                                          .insize neg 0;
                                       Now that line has been read, continue reading until
```

```
UAFMAIN
VO4-000
                                                                                                                16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page 167 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (35)
                            get_cmd_line - input user command line
                                             last character is not a '-'.
                                          ptr = .insize - 1:
                                                                                                                               ! index to last character read
                                                                                                                              initial buffer size
                            4600
4601
4603
4603
4606
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4607
4608
4611
4613
4615
4617
4618
4619
                                          buflen = cmdbuflen:
                                          while
                                                 .cmdbuf[.ptr] eql '-'
                                                 begin
                                                    Read starting at the position of the '-'. Then adjust the index and remaining length to point to the last character
                                                    of the next input.
  4551
4553
4555
4555
4556
4556
4561
4563
4564
4565
4566
                                                 buflen = .buflen - (.insize + 1);
ask (accprmpt2, cmdbuf[.ptr], .buflen);
if (.ptr + .insize) lss cmdbufmax
                                                        ptr = .ptr + .insize - 1
                                                 else
                                                        begin
LIBSSIGNAL(UAFS_CMDTOOLONG, 1, cmdbufmax);
                                                        return false;
                                                        end:
                                                 end:
                                          cmdlindsc [0] = .ptr + 1;
cmdlindsc [1] = cmdbuf;
  4567
4568
4569
4570
                                          return true;
                                          end:
                                                                                                003C 00000 GET_CMD_LINE:
                                                                                                                                                Save R2,R3,R4,R5
ASK, R5
CMDBUF, R4
#1024, -(SP)
                                                                                                                                   . WORD
                                                                                                                                                                                                                                4540
                                                                                                         00002
00009
00010
00015
00017
0001D
00020
00025
00027
00028
00030
28:
                                                                         000000000
00000000
0400
                                                                                                    9E
3C
                                                                                             008500CEA8564C
                                                                                                                                  MOVAB
                                                                                                                                  MOVAB
                                                                                                                                                                                                                                 4590
                                                                                                                                  MOVZWL
                                                                                                    00 FB03
                                                                                                                                  PUSHL
                                                                                                                                                ACCPRMPT
                                                                          00000000
                                                                                                                                  PUSHAB
                                                                    65
50
                                                                                                                                                M3, ASK
INSIZE, RO
                                                                                                                                  CALLS
                                                                                 0990
                                                                                                                                                                                                                                 4592
                                                                                                                                  MOVL
                                                                                                                                  BEQL
                                                                                                                                                -1(R0), PTR
#1024, BUFLEN
R4 PTR, R1
(R1), #45
                                                                     52
53
52
52
                                                                                                                                                                                                                                 4599
                                                                                                                                  MOVAB
```

0400

0990

53

51

50

MOVZUL ADDL3

CMPB BNEQ

SUBL 3

INSIZE, BUFLEN, RO

VO

4600

UAFMAIN V04-000	get_cmd_lin	e - input	user	command Li	ine		1	7 -Sep-	1984 02:16 1984 13:21	:54	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[UAF.SRC]	UAFMAIN.B32;1 (35
	50	000001FC 000000006 00000000°	53 652 8F 52 7E 00 00 50	0990	A0A0340600F1F333241 50	9B9FB118E1CDDB1EE0444	0003f 00045 00048 0004E 0005B 0005D 00063 00068 00068 00077 00077 00088 0008B 0008E	35: 45: 55:	MOVAB PUSHAB CALLS ADDL3 CMPL BGEQ MOVAB BRB MOVAB BRB MOVAB	# M < R < R < R < R < R < R < R < R < R <	DEFLEN  11 R3> 12 RMPT2 13 RMPT2 13 RMPT2 15 RMPT2 15 RMPT2 15 RMPT2 15 RMPT2 15 RMPT2 16 RMPT2 17 RMPT2 18 RMP	4614 4615 4615 4626 4626 4626 4626 4626 4636

; Routine Size: 143 bytes, Routine Base: \$CODE\$ + 2783

```
UAFMAIN
VO4-000
                                                                                                                                                                                                                                                                 16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                                                                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 Page 169 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.832;1 (36)
                                                                ask - prompt terminal for input
                                                                2345678901234567890123456789012345678901234567777777890
                                                                                                 "ask - prompt terminal for input"
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                                                                                                 global routine ask (string, buffer, len) : novalue =
                                                                                                  1++
                                                                                                        FUNCTIONAL DESCTIPTION:
                                                                                                                                Routine to prompt user for input. The input string is read into the user specified buffer and the size read is placed in the global INSIZE.
                                                                                                         INPUTS:
                                                                                                                                STRING - the address of a counted ascii prompt string BUFFER - address of the input buffer
                                                                                                                                LEN - length of the input buffer
                                                                                                         IMPLICIT INPUTS:
                                                                                                                                none
                                                                                                        OUTPUTS:
                                                                                                                                none
                                                                                                         IMPLICIT OUTPUTS:
                                                                                                                                INSIZE - size of the input string
        4601
       4602
                                                                                                         ROUTINE VALUE:
       4603
       4604
                                                                                                                                none
       4605
       4606
                                                                                                        SIDE EFFECTS:
       4607
       4608
                                                                                                                                none
        4609
       4610
4611
4612
4613
4614
4615
4616
4617
4618
4621
4623
4624
4625
4626
4627
                                                                                                                                buffer : ref vector[,byte];
                                                                                                inrab[rab$l_pbf] = .string + 1;
inrab[rab$b_psz] = . (.string)<0,8>;
inrab[rab$l_ubf] = .buffer;
inrab[rab$w_usz] = .len;
                                                                                                                                                                                                                                                                                                         prompt string address
                                                                                                                                                                                                                                                                                                         prompt size
buffer address
                                                                                                                                                                                                                                                                                                         buffer size
                                                                                                        If end of file encountered on get (either "Z from terminal or end of file on indirect command file) then take exit path.
                                                                4681
4682
4683
                                                                4684
                                                                                                 if $get (rab=inrab) eql rms$_eof
                                                                                                 then exit_uaf ();
                                                                 4686
                                                                                                  if (insize = .inrab[rab$w_rsz]) neg 0
                                                                                                                                                                                                                                                                                                                                ! get input size
```

UA

VO

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UAFMAIN VO4-000	*	rompt	terminal	for	input			1	7 -Sep-	1984 02:16 1984 13:21	:54 VAX-11 BLiss-32 V4.0-742 :22 DISKSVMSMASTER:[UAF.SRC]UAFM	Page 170
4629 4630 4631 4632 4633 4634 4635 4636	4689 4690 4691 4693 4693 4694 4695 3 4696 1	egin ncru i to lo begin if .bu then b end;			'a' ouffe	Upcasing is done here because the CVT option does not work under batch.  'and buffer[.i] legu 'z' fer[.i] and not %o'040';						
	0090	c2	04 0094 0084 0080 00000006	52 AC C2 C2 C2 C3	00000000° 04 08 00 60	00 01 BC AC AC 01 50	96 96 97 90 96 97 97 97	00000 00002 00009 00010 00016 00022 00025 00033 00035		ENTRY MOVAB ADDL3 MOVB MOVL MOVW PUSHAB CALLS CMPL BNEQ CALLS MOVZWL	ASK, Save R2 INSIZE, R2 #1, STRING, INRAB+48 astring, INRAB+52 BUFFER, INRAB+36 LEN, INRAB+32 INRAB #1, SYS\$GET R0, #98938	4673 4674 4676 4676 4677
		0	V000000V	00	0082		FB 3C	00035 0003C	18:	CALLS	NO. EXIT_UAF INRAB+34, INSIZE	468 468
		51		62		00 02 24 01 50	C3	00041 00043 00047 00049		BEQL SUBL3 CLRL	58 M1. INSIZE, R1	4690
			61 7A	8F	08 B	0D C40	91 1F 91	0004B 00051 00053	2\$:	BRB CMPB BLSSU CMPB BGTRU	aBuffer[I], #97 aBuffer[I], #122	4693
			08 8	51		05 20 50 50 E4	8A D6 D1 1B	00059 0005B 00060 00062 00065	35: 45:	BICB2 INCL CMPL BLEQU	3\$ #32, aBUFFER[]]  I R1	4694 4690
						6.4	04	00067	5\$:	RET		4697

; Routine Size: 104 bytes. Routine Base: \$CODE\$ + 2812

```
UAFMAIN
VO4-000
                                                                                                                             VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                      16-Sep-1984 02:16:54 fmt_sys_msg - output system message file messag 14-Sep-1984 13:21:22
                                 %sbttl 'fmt_sys_msg - output system message file message' global routine fmt_sys_msg (faostr, msgid, p1) : novalue = begin
                      4698
4699
4700
4701
  1++
                                    FUNCTIONAL DESCRIPTION:
                                             This routine outputs an error message followed by the text found in the system message file for the error condition. If the message is not found, the message ID itself is printed.
                                     INPUTS:
                                             FAOSTR - address of counted ascii message to be printed
                                             MSGID - error number
                                                       - the first of possibly several parameters to FAO
                                     IMPLICIT INPUTS:
                                             None
                                     OUTPUTS:
                                             None
                                     IMPLICIT OUTPUTS:
                                             None
                                    ROUTINE VALUE:
                                             None
                                     SIDE EFFECTS:
                                             None
                                  local
                                             buffer : vector [200, byte],
bufdsc : vector [2, long],
                                                                                                         buffer to receive message
                                                                                                         string descriptor
                                             code:
                                                                                                         save return code
                                 bufdsc[0] = 200;
bufdsc[1] = buffer;
                                                                                                      ! construct string descriptor
                                  code = $getmsg (msgid = .msgid, msglen = bufdsc[0], bufadr = bufdsc[0]);
                                     Output internal message. Then output system error or error number.
                                  faodsc[dsc$w_length] = . (.faostr)<0.8>;
faodsc[dsc$a_pointer] = .faostr+1;
$faol (ctrstr = faodsc.
                                                                                                      ! input string descriptor
                                            outlen = outrab[rab$w_rsz],
```

UA

4763

: Routine Size: 125 bytes. Routine Base: \$CODE\$ + 287A

```
UAFMAIN
VO4-000
                                                                                16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                              VAX-11 Bliss-32 V4.0-742 Page 173 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (38)
                    facout - output formatted message
                             %sbttl 'faoout - output formatted message'
global routine faoout (string, p1) =
begin
                                FUNCTIONAL DESCRIPTION:
                                       Routine to output a formatted string.
                                INPUTS:
                                       STRING - address of a counted ASCII FAO control string. P1 - the first of possibly several parameters to FAO
                                IMPLICIT INPUTS:
                                       none
                                OUTPUTS:
                                       none
                                IMPLICIT OUTPUTS:
                                       none
                                ROUTINE VALUE:
                                       FADOUT always returns FALSE, as it is often used on the
                                       return from an error condition.
                                SIDE EFFECTS:
                                       none
                             ! input string descriptor
                                      prmlst = p1);
                              $put (rab = outrab);
                              false
                              end;
                                                                    0004 00000
9E 00002
9B 00009
```

52 000000000

FACOUT, Save R2 FACOSC, R2

FAODSC, R2 astring, FAODSC

.ENTRY

MOVAB

MOVZBW

UA

VO

4765

UAFMAIN VO4-000	facout - output formatted message						M 7 16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 174 14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (38)							
	04		04 000000G 000000G		08 F 8 072E	01 A22 50 C50 C50 C50 C50 C50 C50 C50 C50 C50	1995 1995 1995 1995 1995 1995 1995 1995	0000D 00013 00016 00019 0001D 0001F 00026 0002A 00031	ADDL3 PUSHAB PUSHAB PUSHL CALLS PUSHAB CALLS CLRL RET	#1, STRING, P1 DISDSC OUTRAB+34 R2 #4, SYS\$FAO OUTRAB #1, SYS\$PUT R0	)L	4803 4807 4809 4812		

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 175 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (39)
                        help uaf - help routine
                                     %sbttl 'help_uaf - help routine'
global routine help_uaf : novalue =
                                     begin
                                     !++
                                        FUNCTIONAL DESCRIPTION:
                                                 Print out the help message or messages.
                                        INPUTS:
                                                 none
                                        OUTPUTS:
                                                 none
                                        ROUTINE VALUE:
                                                 none
                                        SIDE EFFECTS:
                                                 none
                                     map
                                                 cmdlindsc: vector:
                                     local
                                                 line_dsc
                                                                          : vector [2]:
                                     line_dsc[0] = .cmdlindsc[0];
line_dsc[1] = .cmdlindsc[1];
   4792
4793
4794
4795
4796
4797
4798
4801
4802
4803
4804
4805
4808
4809
4810
4811
4812
                                       The first thing to do is to remove 'help' from the command line and give the help routine the remainder of the command line. Find the beginning of the word 'help'.
                                     if .(.line_dsc[1])<0.8> eql ' '
                                     then
                                           line_dsc[1] = ch$find_not_ch (.line_dsc[0], .line_dsc[1], '');
line_dsc[0] = .line_dsc[0] - (.line_dsc[1] - .cmd[indsc[1]);
                                           end:
                                        Now skip past the 'help' to the first blank (if there is one)
                                     if ch$fail (line_dsc[1] = ch$find_ch (.line_dsc[0], .line_dsc[1], ' '))
                                     then
                                              No blank, set empty string
                                           line_dsc[0] = 0
```

```
8 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1
                        help_uaf - help routine
  4813
4814
4815
4816
4817
4819
4821
48223
48226
4824
4826
4828
                                    else
                                             found a blank, set pointer to it
                                           line_dsc[0] = .cmdlindsc[0] - (.line_dsc[1] - .cmdlindsc[1]);
                                       Start an interactive HELP session
                                    then LIB$SIGNAL(UAF$ HELPERR):
                                    end:
                                                                                                                 .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                                           0088C P.AFI:
00893
                                                      60 65 68 66 61 75
                                                                                                                 .ASCII
                                                                                                                            \uafhelp\
                                                                                                                 .BLKB
                                                                                           00894 P.AFH:
                                                                            00000007
                                                                                                                 .LONG
                                                                            00000000
                                                                                           00898
                                                                                                                 .ADDRESS P.AFI
                                                                                                                 .PSECT
                                                                                                                            SCODES, NOWRT, 2
                                                                                                                            HELP UAF, Save R2,R3
#4, SP
CMOLINDSC, R3
                                                                                          00000
00002
00005
00000E
00015
00019
00010
00024
00026
00026
00026
00031
00031
00031
00034
2$:
00039
00038
00039
00047
00045
00047
00045
00045
00056
00058
                                                                                                                ENTRY
SUBL2
                                                                                                                                                                                                  4814
                                                           22 00000000°
                                                                                      20000012824030A24024131F4FF
                                                                                                                MOVL
                                                                                                                                                                                                  4846
                                                                                                                PUSHL
                                                           52 00000000°
AE
20 04
                                                                                                                            CMDLINDSC+4, R2
R2, LINE DSC+4
QLINE DSC+4, #32
                                                                                                                MOVL
                                                                                                                                                                                                  4847
                                                   04
                                                                                                                MOVL
                                                                                                                CMPB
                                                                                                                                                                                                  4854
                                                                                                                BNEQ
                              04
                                      BE
                                                                                                                SKPC
                                                                                                                            #32, LINE_DSC, QLINE_DSC+4
                                                                                                                                                                                                  4857
                                                                                                                BNEQ
                                                                                                                CLRL
                                                                                                                            Ri, LINE DSC+4
LINE DSC+4, R2, R0
RO, CINE DSC
#32, LINE DSC, aLINE DSC+4
                                                           AE
52
6E
                                                   04
                                                                                                                MOVL
                                      50
                                                                         04
                                                                                                                SUBL 3
                                                                                A5002011146945070A
                                                                                                                                                                                                  4858
                                                                                                                ADDLZ
                              04
                                      88
                                                           6Ē
                                                                                                                LOCC
                                                                                                                                                                                                  4864
                                                                                                                BNEQ
                                                                                                                CLRL
                                                                                                                            R1. LINE_DSC+4
                                                   04
                                                           AE
                                                                                                                MOVL
                                                                                                                BNEQ
                                                                                                                            LINE_DSC
                                                                                                                                                                                                  4869
                                                                                                                CLRL
                                                                                                                BRB
                                                                                                                            LINE DSC+4, R2, R0
R3, R0, LINE DSC
LIBSGET_INPUT
                                      50
6E
                                                                                                                SUBL 3
                                                                                                                                                                                                  4874
                                                                                                                ADDL3
                                                                0000000G
                                                                                                                PUSHAB
                                                                                                                                                                                                  4880
                                                                                                                CLRL
                                                                                                                            -(SP)
                                                                00000000
                                                                                                                PUSHAB
                                                                                                                            P.AFH
                                                                                                                                                                                                 4881
4880
                                                                                                                PUSHAB
                                                                                                                            LINE_DSC
```

••••••••••

UAFMAIN V04-000	help_uaf -			16-Sep-19 14-Sep-19	84 02:16 84 13:21	:54	VAX-11 Bliss-32 V4.0-742 Page 17 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (39			
		00000000G	000000000 00 00000000G	7E 00 06 50 8f 01	04 000 9F 000 FB 000 DD 000 FB 000	061 063 069 070 073 079 080 68:	CLRL PUSHAB CALLS BLBS PUSHL CALLS RET	-(SP) LIB\$P %6, L R0, 6 #UAF\$ %1, L	PUT_OUTPUT_BR\$OUTPUT_HELP  SHELPERR IB\$SIGNAL	4883
; Routine Size	: 129 bytes.	Routine	Base: \$CODE\$	+ 2	.92B					, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

.

```
D 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                            VAX-11 Bliss-32 V4.0-742 Page 178 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (40)
                    exit_uaf - normal exit routine
                             %sbttl 'exit_uaf - normal exit routine'
global routine exit_uaf : novalue =
begin
                                FUNCTIONAL DESCRIPTION:
                                       Normal exit routine.
                                INPUTS:
                                       none
                                OUTPUTS:
                                       none
                                ROUTINE VALUE:
                                       none
                                SIDE EFFECTS:
                                       image exits
                              $close (fab = uaffab);
                                Inform user of file modifications.
                             if .modify_flag
                               File has been modified
                                  LIB$SIGNAL(UAF$_DONEMSG)
                                                                              ! tell user all is done
                                Here, no modifications were made to file.
                                  LIB$SIGNAL (UAF$_NOMODS);
                              if .netuaf_exists
                              then
                                  if not .netuaf_modified
                                       LIB$SIGNAL (UAF$_NAFNOMODS)
                                       LIB$SIGNAL (UAF$_NAFDONEMSG);
                                  end:
  4884
4885
4886
                              if .rdb_exists
                             then
```

UA

4957

4958

```
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page 179 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (40)
                            exit_uaf - normal exit routine
   4887
4888
4889
4890
4891
4893
4894
4895
                                                begin if .rightslist_modified
                                                then
                                                   file has been modified
                                                                                                                         ! tell user all is done
                                                      LIB$SIGNAL(UAF$_RDBDONEMSG)
   4896
4897
                                                   Here, no modifications were made to file.
   4898
4899
                                                       LIB$SIGNAL(UAF$_RDBNOMODS);
   4900
   4901
                                          Sexit (code = true);
   4902
                                                                                                                               .EXTRN SYSSEXIT
                                                                                              001C 00000
9E 00002
9E 00009
9E 00010
DD 00017
I FB 00019
E9 00020
DD 00025
                                                                                                                                             EXIT UAF, Save R2,R3,R4
UAFFAB, R4
NETUAF EXISTS, R3
LIB$SIGNAL, R2
                                                                                                                                                                                                                            4887
                                                                                                                                ENTRY
                                                                   54 00000000°
53 00000000°
52 00000000G
                                                                                           00005014F6F134F6F1
                                                                                                                               MOVAB
                                                                                                                               MOVAB
                                                                                                                               MOVAB
                                                                                                                                                                                                                            4913
                                                                                                                               PUSHL
                                                                                                                                            #1, SYS$CLOSE
MODIFY FLAG, 18
#UAF$_DONEMSG
28
                                                                                                                               BLBC
                                                0000000G
                                                                                                                                                                                                                            4919
                                                                        00000000G
                                                                                                                               PUSHL
                                                                                                 11 0002B
DD 0002D 1$:
FB 00033 2$:
E9 00036
                                                                                                                               BRB
                                                                                                                                            WUAFS NOMODS
W1, LTB$SIGNAL
NETUAF EXISTS, 58
NETUAF MODIFIED, 38
                                                                        D0000000G
                                                                                                                                                                                                                            4929
                                                                                                                               PUSHL
                                                                                                  FB E8 DD 11
                                                                                                                               CALLS
BLBC
BLBS
                                                                                                                                                                                                                            4931
4934
                                                                               F158
                                                                                                       00039
                                                                                                                                            WUAFS_NAFNOMODS
                                                                        000000006
                                                                                                                                                                                                                            4936
                                                                                                       0003E
                                                                                                                               PUSHL
                                                                                                                               BRB
                                                                                                                                            WUAFS NAFDONEMSG
W1, LIBSSIGNAL
RDB EXISTS, 8$
RIGHTSLIST MODIFIED, 6$
WUAFS_RDBDONEMSG
                                                                                                      00046 3$:
0004C 4$:
0004F 5$:
                                                                        D0000000G
                                                                                                  DD FB E9 DD 11
                                                                                                                                                                                                                            4938
                                                                                                                               PUSHL
                                                                                                                               BLBC
                                                                       04
00
00000000
                                                                                                                                                                                                                            4941
                                                                                           A3 8 6 8 F 0 1 0 1
                                                                                                       00053
                                                                                                                                                                                                                            4944
                                                                                                                               BLBC
                                                                                                                                                                                                                            4949
                                                                                                                               PUSHL
                                                                                                       0005D
                                                                                                                               BRB
                                                                                                       0005F 68:
00065 78:
00068 88:
                                                                                                                                             #UAF$ RDBNOMODS
                                                                        00000000G
                                                                                                  DD
FB
                                                                                                                                                                                                                            4954
                                                                                                                               PUSHL
                                                                                                                               CALLS
```

0006A

CALLS

#1, SYSSEXIT

Routine Base: \$CODE\$ + 29AC ; Routine Size: 114 bytes,

00000000G

UAFMAIN VO4-000	SIGNAL_SYNTAX - Report missing q	ualifier	F 8 16-Sep-1984 02:16 14-Sep-1984 13:21	5:54 VAX-11 BL1ss-32 V4.0-742 DISK\$VMSMASTER: [UAF.SRC]UAFMAIN.	Page 180 832;1 (41)
4904 4905 4906 4907 4908 4909	4959 1 %sbttl 'SIGNAL_SYNTAX - 4960 1 global routine SIGNAL_SY 4961 2 begin 4962 2 4963 2 LIB\$SIGNAL(UAF\$_ZISQU 4964 2 4965 1 end;		qualifier' =		
	00000000 00	0000 00 0006 8F DD 00 01 FB 00 04 00	000 .ENTRY 002 PUSHL 008 CALLS 00F RET	SIGNAL SYNTAX, Save nothing #UAF\$ 7ISQUAL #1, LIB\$SIGNAL	: 496 : 496 : 496

UA

TH



```
H 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                           VAX-11 Bliss-32 V4.0-742 Page 182 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (43)
                      UAF$MOD_SYS_PWD -- modify the system password
  49337890123456789012345678901234567890
49937890123456789612345678966777375678969667897734988567899
                                 %sbttl 'UAF$MOD_SYS_PWD -- modify the system password'
                      global routine DAF$MOD_SYS_PWD: novalue = begin
                                  1++
                                    Functional Description:
                                             Modify the system password record by doing a $PUT on the UAF with the UIF bit set for the username "<System+Password>"
                                 Local
                                            block[DSC$K_D_BLN, byte]
preset([DSC$B_CLASS] = DSC$K_CLASS_D),
                                      ROP:
                                             Save current settings
                                          .UAFRAB[RAB$L_RBF];
.UAFRAB[RAB$L_ROP];
                                 RBF =
                                      =
                                             Get new password and encrypt it
                                 CLISGET_VALUE(Xascid'SYSTEM_PASSWORD', PWD);
                                 if .PWD[DSC$W_LENGTH] neq 0 then
  LGI$HPWD(REC_ENCRYPT_DSC, PWD, UAF$C_PURDY_V, 0, %ASCID'<System+Password>')
                                     ch$fill(0, UAF$S_PWD, RECBUF[UAF$Q_PWD]);
                                            Fill in fields of the UAF record
                                 Modify the RAB for our needs
                                 UAFRAB[RAB$V_UIF] = 1;
UAFRAB[RAB$W_R$7] = UAF$C_LENGTH;
UAFRAB[RAB$L_RBF] = RECBUF;
                                             Modify the system password
```

U

IAF	MAIN -000			UAF	SMOD	_SYS	PWD	)	modi	fy	the sy	ster	n pas	SWO	rd 1	8 5-Sep-19 6-Sep-19	84 02:16: 84 13:21:	VAX-11 Bliss-32 V4.0-742 PA 22 DISKSVMSMASTER: [UAF.SRC]UAFMAIN.B32;1	ge 183 (43)
4444	991 992 993			504 504 504	2 -	\$PU	T(RA	B=UA	FRAB	);									
44	995 996			504	892			Rep	lace	th	e sett	ings	5						
4455	991 992 993 994 995 996 997 998 999 000			505 505 505 505	222	UAF UAF	RAB[	RAB\$	L_RB	F]	= .RBF = .ROP								
																	.PSECT	SPLITS, NOWRT, NOEXE, 2	
)	52	4F	57	53	53	41	50	5F	40	45	54	53	59	53	00890	P.AFK:	.ASCII	\SYSTEM_PASSWORD\<0>	•
	6F	77	73	73	61	50	28	6D	65	74	73	79 00	10E000F 0	000f 008AC	08B0 08B4 P.AFM:	.ADDRESS	17694735 S P.AFK \ <system+password>\&lt;0&gt;&lt;0&gt;</system+password>		
2 6F 77	77	73	73	61	50	28	6D	65	74		79 00	10E00 00000 53	00° 30° 64	008C8 008CC 008D0 008DF	P.AFL: P.AFN:	.LONG .ADDRESS .ASCII	17694737 5 P.AFM \<\$ystem+Password>\<0><0>		
																	.PSECT	SCODES, NOWRT, 2	
													0	3FC	00000		.ENTRY	UAF\$MOD_SYS_PWD, Save R2,R3,R4,R5,R6,R7,R8,	-: 498
										58 5E	000000	00'	0004FE88F2E692E958081	9E 02 00 04 00	00002 00009 00010 00013 00019 00015 00023 00027 00035 00038 00038 00038 00038 00046 00048 00050 00050		MOVAB MOVAB SUBL2 PUSHL CLRL MOVL MOVL PUSHR CALLS TSTW BEGL PUSHAB MOVQ PUSHAB PUSHAB CALLS BRB MOVC5	R9 P.AFJ, R9 UAFRAB+40, R8 #4 SP #33554432 PWD+4 UAFRAB+40, RBF UAFRAB+4, ROP #^M <r9,sp> #2, CLISGET_VALUE PWD 18</r9,sp>	500 501 501 501
							000	0000	0G	00			02 6E 16	68 65 13	00027 00027 0002E 00030		CALLS TSTW BEQL	#2, CLISGET_VALUE PUD 18	502
							000	00000		7E		1C 0C 940	A9 02 AE 05	9F 7D 9F 9F F B	00035 00038 00038 0003F		PUSHAB MOVQ PUSHAB PUSHAB CALLS	#27 -(SP) PUD REC_ENCRYPT_DSC #5. LGISHPUD	502
			08			00				6E			08	50	00048	15:	BRB MOVC5	2\$ #0, (SP), #0, #8, RECBUF+340	502
			20			20	)			A9		944 9F4 956	11 C8 C8 10	2C	00050 00056 00059	2\$:	MOVC5	#17, P.AFN, #32, #32, RECBUF+4 RECBUF+358	503 503
								D	C	8A 8A		584	10 8f	88 B0	00050		CLRW BISB2 MOVW	RECBUF+358 #16, UAFRAB+4 #1412, UAFRAB+34	503 503 503

V

UAFMAIN VO4-000	UAF\$MOD_SYS_PWD modify the	system password 14-Sep-1984 02:16:54 VA	X-11 Bliss-32 v4.0-742 Page 184 SK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (43)
	00000000G 00 68 DC A8	D8 A8 9F 0006C PUSHAB UAFRAB	UAFRAB+40 : 5039 :5045 :RAB+40 : 5051 :RAB+4 : 5052 :5054
; Routine Siz	e: 126 bytes, Routine Base:	\$CODE\$ + 2A3A	

```
UAFMAIN
VO4-000
                                                                                                                           16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page 185 DISK$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (44)
                               security_audit - perform a security audit
    5003
5004
5005
5006
5007
                                              %sbttl 'security_audit - perform a security audit' routine security_audit (code, old_user) : novalue =
                               begin
                                              1++
    5008
    5009
                                                 FUNCTIONAL DESCRIPTION:
    5010
    5011
                                                             Perform a security audit, if needed.
    5012
    5013
5014
5015
5016
                                                  INPUTS:
                                                             CODE - Security audit record id
                                                             OLD_USER - Old username (optional depending on the record id)
    5017
    5018
5019
                                                  IMPLICIT INPUTS:
   PCB_STS - This process's PCB status UAF$GQ_SYSUAFF - SYSUAF fields modified
                                                  OUTPUTS:
                                                             none
                                                  IMPLICIT OUTPUTS:
                                                             none
                                                 ROUTINE VALUE:
                                                             none
                                                  SIDE EFFECTS:
                                                             none
                                              external routine
                                                             nsaSevent_audit;
                                                                                                                          ! Kernel mode auditing routine
                                              external
                                                             nsa$gr_alarmvec : block [,byte], ! Security audit alarm vector
nsa$gr_journvec : block [,byte]; ! Security audit journal vector
                               5100
5101
5102
5103
5104
5105
5106
5107
5108
                                              macro
                                                             add_quad_packet(type, a_quad) = ! Add a quadword packet to list
                                                                     begin
                                                                    degin
(.arglist_ptr)<0,16> = %name('nsa%k_pkttyp_', type);
arglist_ptr = .arglist_ptr + 2;
(.arglist_ptr)<0,16> = nsa%k_arg_mech_quad;
arglist_ptr = .arglist_ptr + 2;
(.arglist_ptr)<0,32> = .(a_quad)<0,32>;
arglist_ptr = .arglist_ptr + 4;
(.arglist_ptr)<0,32> = .(a_quad)<32,32>;
arglist_ptr = .arglist_ptr + 4;
arglist_nsa%b_arg_pktnum] = .arglist[nsa%b_arg_pktnum] + 1;
```

VO

```
VAX-11 Bliss-32 V4.0-742 Page 186 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.832;1 (44)
UAFMAIN
                                                                                                      16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
V04-000
                         security_audit - perform a security audit
  add_descr_packet(type, len, ptr) = ! Add a descriptor packet to list
                                                       descr_packet(type, len, ptr) = ; Add = descriptor packet
begin
(.arglist_ptr)<0,16> = %name('nsa%k_pkttyp_', type);
arglist_ptr = .arglist_ptr + 2;
(.arglist_ptr)<0,16> = nsa%k_arg_mech_descr;
arglist_ptr = .arglist_ptr + 2;
(.arglist_ptr)<0,32> = len;
arglist_ptr = .arglist_ptr + 4;
(.arglist_ptr)<0,32> = ptr;
arglist_ptr = .arglist_ptr + 4;
arglist_ptr = .arglist_ptr + 4;
arglist_nsa%b_arg_pktnum] = .arglist[nsa%b_arg_pktnum] + 1;
and%;
                                      local
                                                         ist : block ! Argument list for NSA$EVENT_AUDIT [nsa$k_arghdr_length + ((2 + 2 + 8) * 6), byte],
                                                                                                      ! Packet fill in pointer
                                                   arglist_ptr;
                                      ch$fill(0, %allocation(arglist), arglist); ! Clear out the argument list
                                     if .nsa$gr_alarmvec[nsa$v_evt_uaf] ! If alarm auditing,
then arglist[nsa$v_arg_flag_alarm] = true; ! perform alarm audit
                                      if .nsa$gr_journvec[nsa$v_evt_uaf] ! If journal auditing,
then arglist[nsa$v_arg_flag_journ] = true; ! perform journal audit
                                      if .pcb_sts[$bitposition(pcb$v_secaudit)] ! If mandatory auditing,
                                      then arglist[nsasy_arg_flag_mandy] = true; ! perform mandatory audit
                                      if .arglist[nsa$b_arg_flag] eql 0
                                                                                                        If no audit requested,
                                      then return:
                                                                                                          simply exit
                                      arglist[nsa$l_arg_id] = .code;
                                                                                                      ! Set audit record type/subtype
                                      arglist_ptr = arglist[nsa$t_arg_list]; ! Address packet(s) in arg list
                                      if .arglist[nsa$w_arg_type] eql nsa$k_rectyp_sysuaf
then ! For SYSUAF records...
                                      then
                                            begin
if .arglist[nsa$w_arg_subtype] neq nsa$k_rectyp_sysuaf_del
                                            add_quad_packet(sysuaff, uaf$gq_sysuaff);
add_descr_packet(usernam,
                                            namelen(uaf$s_username, recbuf[uaf$t_username]),
recbuf[uaf$t_username]);
if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_cop
or .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_ren
                        5160
5161
5162
5163
5164
5166
5167
5168
                                                   add_descr_packet(usernam,
                                                                             namelen(uaf$s_username, .old_user),
                                                                              .old_user);
                                            end
                                                                                                      ! For NETUAF records...
                                      else
                                            add_descr_packet(nodenam,
                                                                       namelen(naf$s_node, netbuf[naf$t_node]),
```

V

```
M 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
UAFMAIN
VO4-000
                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page 187 DISK$VMSMASTER: [UAF.SRC]UAFMAIN.B32;1 (44)
                          security_audit - perform a security audit
   netbuf[naf$t_node]):
                         5169
5170
5171
5172
5173
5176
5176
5177
5178
5180
5181
                                             add_descr_packet(usernam,
namelen(naf$s_remuser, netbuf[naf$t_remuser]),
netbuf[naf$t_remuser]);
                                             add_descr_packet(usernam,
namelen(naf$s_localuser, netbuf[naf$t_localuser]),
netbuf[naf$t_localuser]);
if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_netuaf_mod
                                             then
                                                    add_descr_packet(nodenam,
                                                                               namelen(naf$s_node, netbuf[naf$t_node]),
netbuf[naf$t_node]);
                         5182
5183
5184
5185
5186
5187
5188
                      PP
                                                    add_descr_packet(usernam
                                                                               namelen(naf$s_remuser, netbuf[naf$t_remuser]),
netbuf[naf$t_remuser]);
                                                   add_descr_packet(usernam, namelen(uaf$s_username, .old_user),
                                                                                .old_user);
                                                    end:
                          5189
5190
5191
                                             end:
                                       arglist[nsa$l_arg_count] = (.arglist_ptr - (arglist + 4)) / 4; ! Set # args
                          5192
5193
5194
5195
                                       $cmkrnl(routin = nsa$event_audit, arglst = arglist); ! Do the security audit
                                      end:
                                                                                                                                    NSASEVENT_AUDIT
NSASGR_ALÄRMVEC
NSASGR_JOURNVEC
SYSSCMERNL
                                                                                                                        .EXTRN
                                                                                                                        .EXTRN
                                                                                                                        .EXTRN
                                                                                         007C 00000 SECURITY AUDIT:
                                                                                                                         WORD
                                                                                                                                     Save R2, R3, R4, R5, R6
                                                                                                                                                                                                               5056
                                                                                                                                    NETBUF, R6
-84(SP), SP
#0, (SP), #0, #84, ARGLIST
                                                               56
5E
6E
                                                                                            9E
9E
                                                                    00000000
                                                                                                 20000
                                                                                     MOVAB
                                                                                                                        MOVAB
MOVC5
      0054
                 8F
                                        00
                                                                                                 00000
                                                                                                                                                                                                               5131
                                                                                                  00014
                                                                                                                                                                                                               5133
5134
5136
5137
5139
5140
5142
                                                                                                                                           NSASGR ALARMVEC, 18
ARGLIST+8
                                         04 00000000G
                                                                                                  00015
                                                                                                                        BBC
BISB2
                                                                                            E8E8E891009E
                                                                                                 0001b
00021
00029
                                                               AE
00
                                                                                                                                    #2, NSASGR JOURNVEC, 28
#2, ARGLIST+8
#3, PCB STS+3, 38
#4, ARGEIST+8
ARGLIST+8
                                        04 00000000G
                                                                                                                        BBC
BISB2
                                                               AE
OO
AE
                                                                                                                       BBC
                                                                                                 00020
                                        04 00000000
                                                                                                00035
00039
0003C
0003E
0003F
                                                                                                                        BISB2
TSTB
                                                                              80
                                                                                                                        BNEQ
                                                                                                                        RET
                                                                             04
00
04
                                                                                                                                                                                                               5145
5147
5149
                                                               95
25
05
                                                                                      AC AE AE OF BF
                                                                                                                        MOVL
                                                                                                                                     CODE, ARGLIST+4
ARGLIST+12, ARGLIST_PTR
                                                                                                                        MOVAB
                                                                                                 00048
0004C
0004E
                                                                                                                                     ARGLIST+4, #2
                                                                                                                        CMPW
                                                                                                                        BNEQ
                                                                              06
                                                                                                                                     ARGLIST+6, #2
                                                                                                                        CMPW
                                                                                                                                                                                                               5152
                                                                                                                        BEQL
                                                               82 00030012
                                                                                                                                     #196626, (ARGLIST_PTR)+
                                                                                                                                                                                                               5154
                                                                                                                        MOVL
```

U

V

UAFMAIN VO4-000	security	_audit - perfo	orm a security	audit		8 -Sep-1984 0 -Sep-1984 1	
	FA80	C6 82	82 F9F8 09 82 0004000A 20 20 82 FA80 09 04 06 05 06	6EF006EEDE95F006EF006EF006EE3F006E	7D 0005B 96 00060 D0 00063 3A 0006A C3 00070 9E 00074 96 00079 B1 00080 B1 00082 12 00086 11 00088 D0 0008A	MOVING INCI SUBI MOVING INCI CMPI BEQ	OVQ
		66 82	82 00040009 20 20 82	49 75 8F 20 50	12 00086 11 00088 D0 0008A 3A 00091 C3 00095 9E 00099	BNE BRB 6\$: MOVI LOC SUBI MOV	NEQ 7\$ RB 8\$ OVL #262153, (ARGLIST_PTR)+ OCC #32, #32, NETBUF UBL3 RO, #32, (ARGLIST_PTR)+ OVAB NETBUF, (ARGLIST_PTR)+ NCB ARGLIST+9
	20	A6 82	82 0004000A 20 20 82 20 99	AE 8F 20 50 A6	96 0009C D0 0009F 3A 000A6 C3 000AB 9E 000AF	INCI MOV LOC SUB MOV	NCB ARGLIST+9 OVL #262154, (ARGLIST_PTR)+ OCC #32, #32, NETBUF+32 UBL3 RO, #32, (ARGLIST_PTR)+ OVAB NETBUF+32, (ARGLIST_PTR)+ NCB ARGLIST+9
	40	A6 82	82 0004000A 20 20 82 40	8F 20 50 A6 AE	3A 00091 C3 00095 9E 00099 96 00096 D0 00096 3A 000A6 C3 000AB 9E 000AF 96 000B3 D0 000B0 C3 000C2 9E 000CA	MOV LOC SUB MOV INC	OVL #262154, (ARGLIST_PTR)+ OCC #32, #32, NETBUF+64  UBL3 RO, #32, (ARGLIST_PTR)+ OVAB NETBUF+64, (ARGLIST_PTR)+ NCB ARGLIST+9
		66 82	82 00040009 20 20 82	8F 20 50	B1 000CD 12 000D1 D0 000D3 3A 000DA C3 000DE 9E 000E2 96 000E5	LOC SUBI MOV	OVL #262153, (ARGLIST_PTR)+ OCC #32, #32, NETBUF UBL3 RO, #32, (ARGLIST_PTR)+ OVAB NETBUF, (ARGLIST_PTR)+
	20	A6 82	82 0004000A 20 20 82 20 82 09		000E5 000E8 3A 000EF C3 000F4 9E 000F8	MOVI LOC SUB MOVI	NCB ARGLIST+9 OVL #262154, (ARGLIST_PTR)+ OCC #32, #32, NETBUF+32 UBL3 RO, #32, (ARGLIST_PTR)+ OVAB NETBUF+32, (ARGLIST_PTR)+ NCB ARGLIST+9 OVL #262154, (ARGLIST_PTR)+ 5187
	08	BC 82	82 0004000A 20 20 82 08 50 04	8F006EF000AEF0000	3A 00106	LUC	UCC #32, #32, WULD USER
		6E	50 04 52 52 000000006	AE 50 04 5E 00	C3 0010B D0 0010F 96 00113 9E 00116 C2 0011A C7 0011D DD 00121 9F 00123 FB 00129 04 00130	9\$: MOVA SUBI DIVI PUSI	OVL OLD USER, (ARGLIST_PTR)+ NCB ARGLIST+9 OVAB ARGLIST+4, RO UBLZ RO. RZ IVL3 #4, RZ, ARGLIST USHL SP USHAB NSA\$EVENT_AUDIT
		0000000G	00	őž	FB 00129 04 00130	CAL	ALLS #2, SYSSCMKRNL

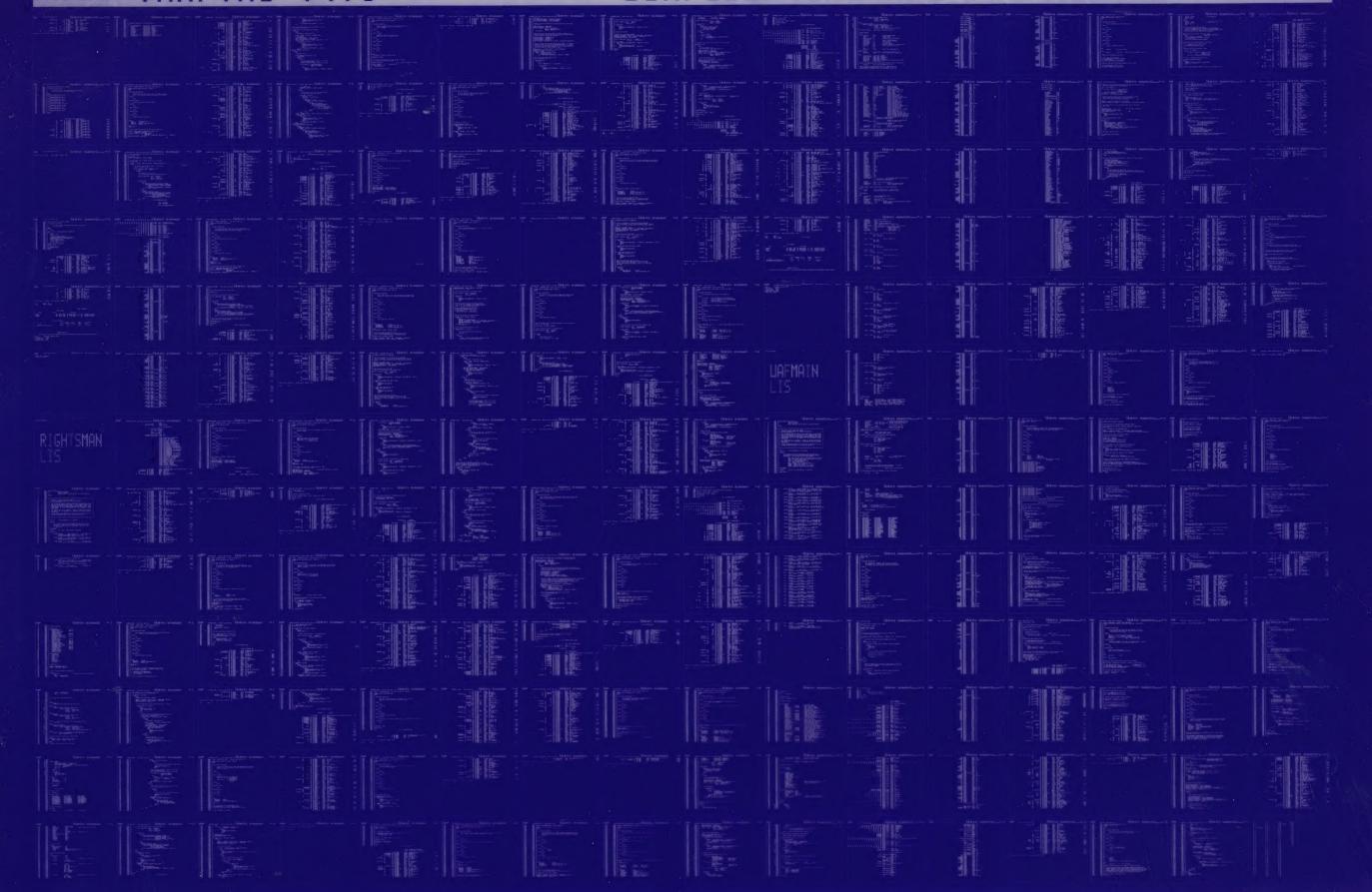
; Routine Size: 305 bytes, Routine Base: \$CODE\$ + 2AB8

1	AFMAIN 04-000 5145 5146	security_audit - per 5196 1 end 5197 0 eludom	rform a	security audit	B 9 16-Sep-19 14-Sep-19 ! End of		6:54 1:22	VAX-11 BLiss-32 V4 DISK\$VMSMASTER: [UAI	0-742 F.SRCJUAFMAIN.B32;1 (45)
						.EXTRN	LIBS	STOP	
1			PSE	CT SUMMARY					
	Name	Byt	es		Attributes				
	SPLITS SOWNS SGLOBALS SCODES . ABS .		2276 4364 2032 11241 0	NOVEC, NOWRT, RI NOVEC, WRT, RI NOVEC, WRT, RI NOVEC, NOWRT, RI NOVEC, NOWRT, NORI	NOEXE, NOSHR, NOEXE, NOSHR, NOEXE, NOSHR, EXE, NOSHR, NOEXE, NOSHR,	LCL, LCL, LCL, LCL,	REL. REL. REL. ABS.	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(0)	
		Libr	ary St	atistics					
	File			Total Load		Page: Mapp	s ed	Processing Time	
:	_\$255\$DUA28	:[SYSLIB]LIB.L32;1		18619 30	00 1	1000		00:02.0	
:			co	MMAND QUALIFIERS					
;	BLISS/	CHECK=(FIELD, INITIAL, O	PTIMIZ	E)/LIS=LIS\$:UAFM/	IN/CBJ=OBJ\$:UA	FMAIN M	SRC\$:U	AFMAIN/UPDATE=(ENH\$:	JAFMAIN)
	Size: Run Time: Elapsed Time Lines/CPU Mi Lexemes/CPU- Memory Used: Compilation	n: 1646 Min: 26564 654 pages	ita byt	es					

VO

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